OPERATOR:	**Bill Barrett Corp**		
WELL NAME:	**AEF 4-62-16-0857CH**	SCALE:	5"=100'
FIELD NAME:	Wattenberg	SURFACE HOLE:	250 FNL, 1003 FEL
DRILLING RIG:	Nabors M37	BOTTOM HOLE:	500 FSL, 500 FEL
API #:	05-123-39087	LOCATION:	NENE Sec 16, T4N, R62W

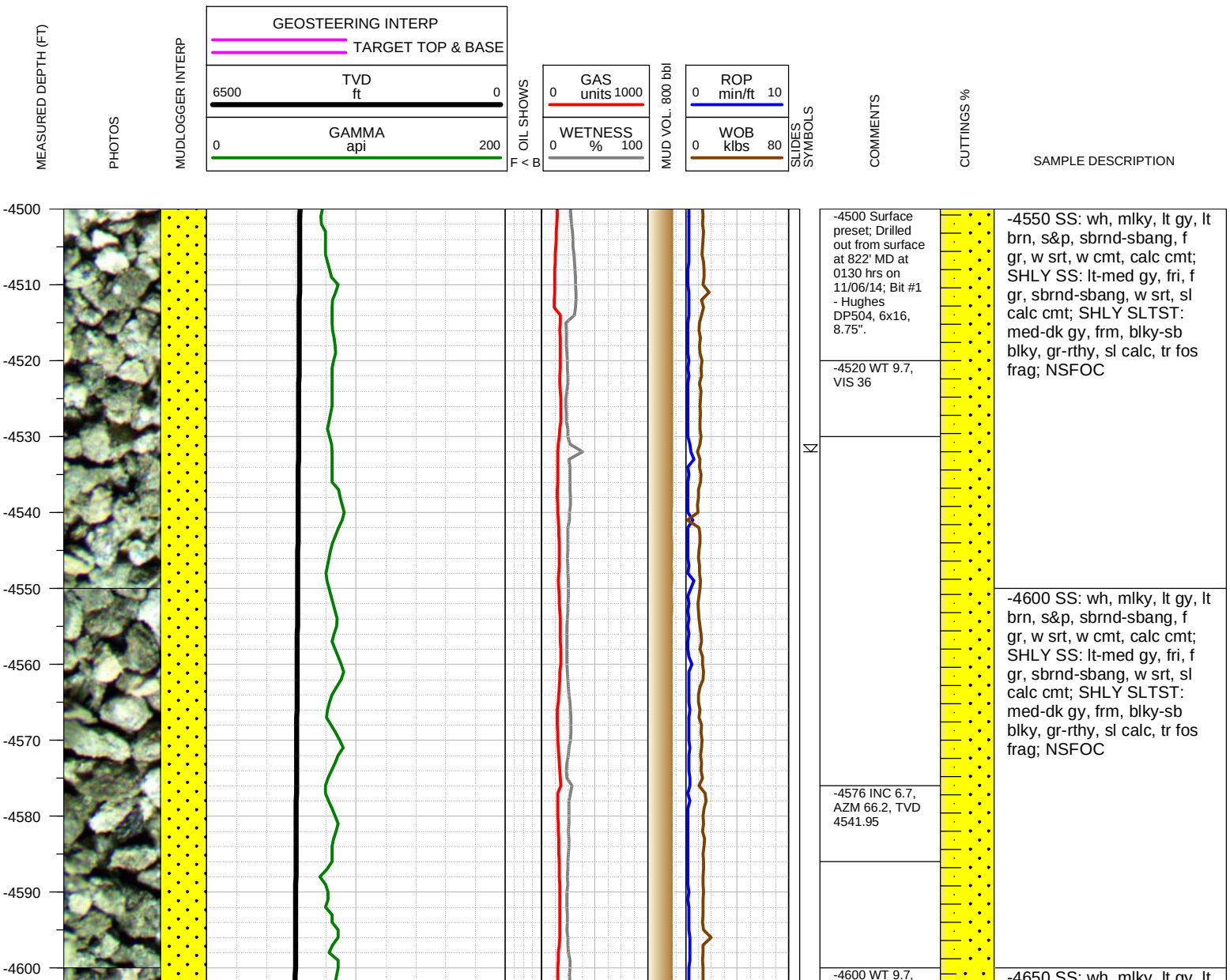
Earth Science Agency, LLC

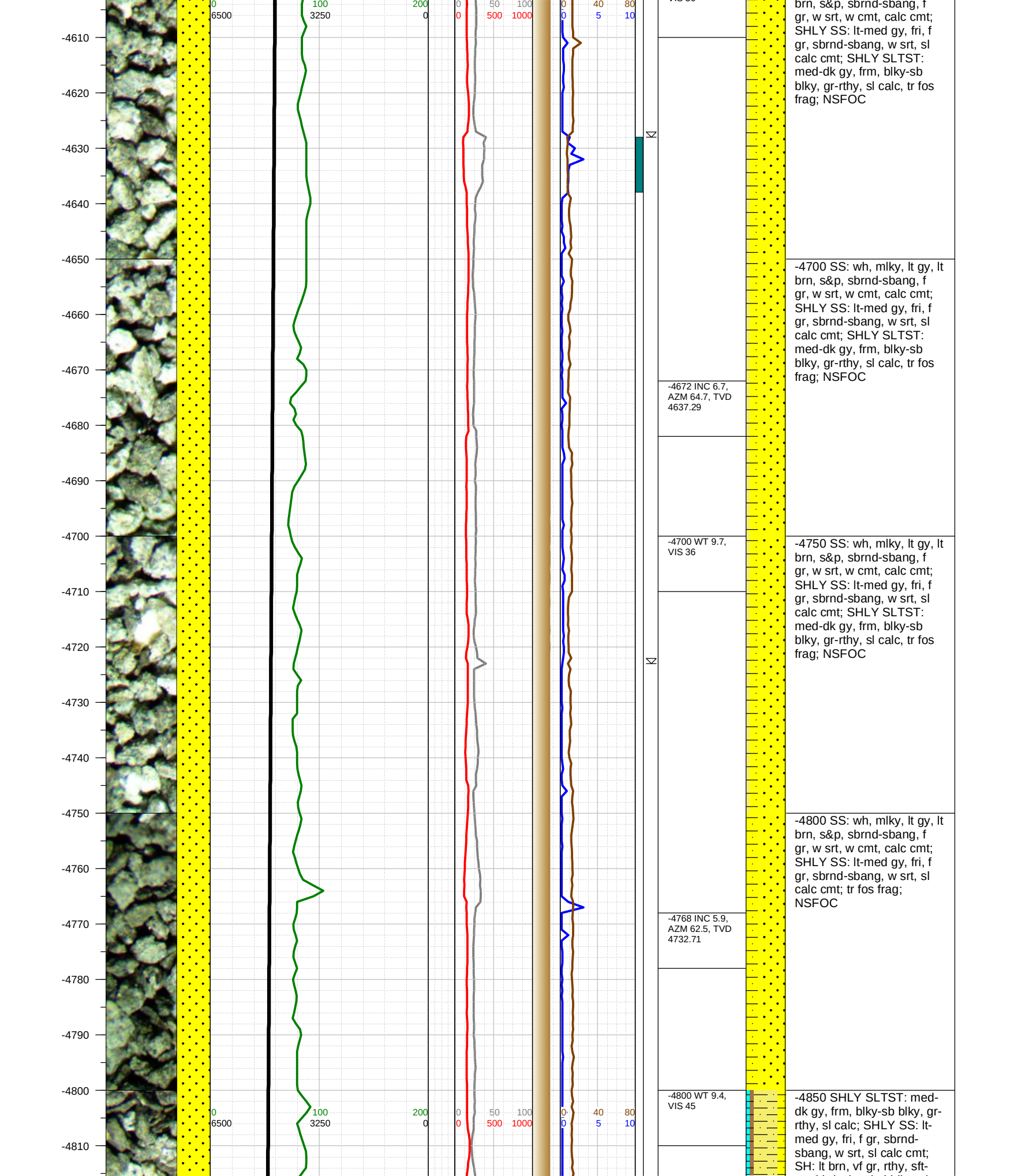
COUNTY:	Weld
STATE:	Colorado
GROUND ELEVATION:	4523'
KELLY BUSHING:	4546'
DRILLING FLUID:	LSND
TVD VS. MD:	6213.79'/10805'
SPUD DATE:	November 6, 2014
FGS BEGIN LOGGING:	4500'; November 6, 2014
TD DATE:	November 12, 2014
DATES LOGGED:	November 6, 2014 - November 12, 2014
DEPTHS LOGGED:	4500'-10805'
LOGGER:	Tyson Barnes

LEGEND

- CHALK
- LIMESTONE
- SHALY LIMESTONE
- MARLSTONE
- CALCAREOUS SHALE
- DOLOMITE
- SHALE
- SILTY SHALE
- SHALY SILTSTONE
- SHALY SANDSTONE
- SANDSTONE
- ANHYDRITE

FORMATION | CONNECTION | MIDNIGHT | NEW BIT | GAS SHOW

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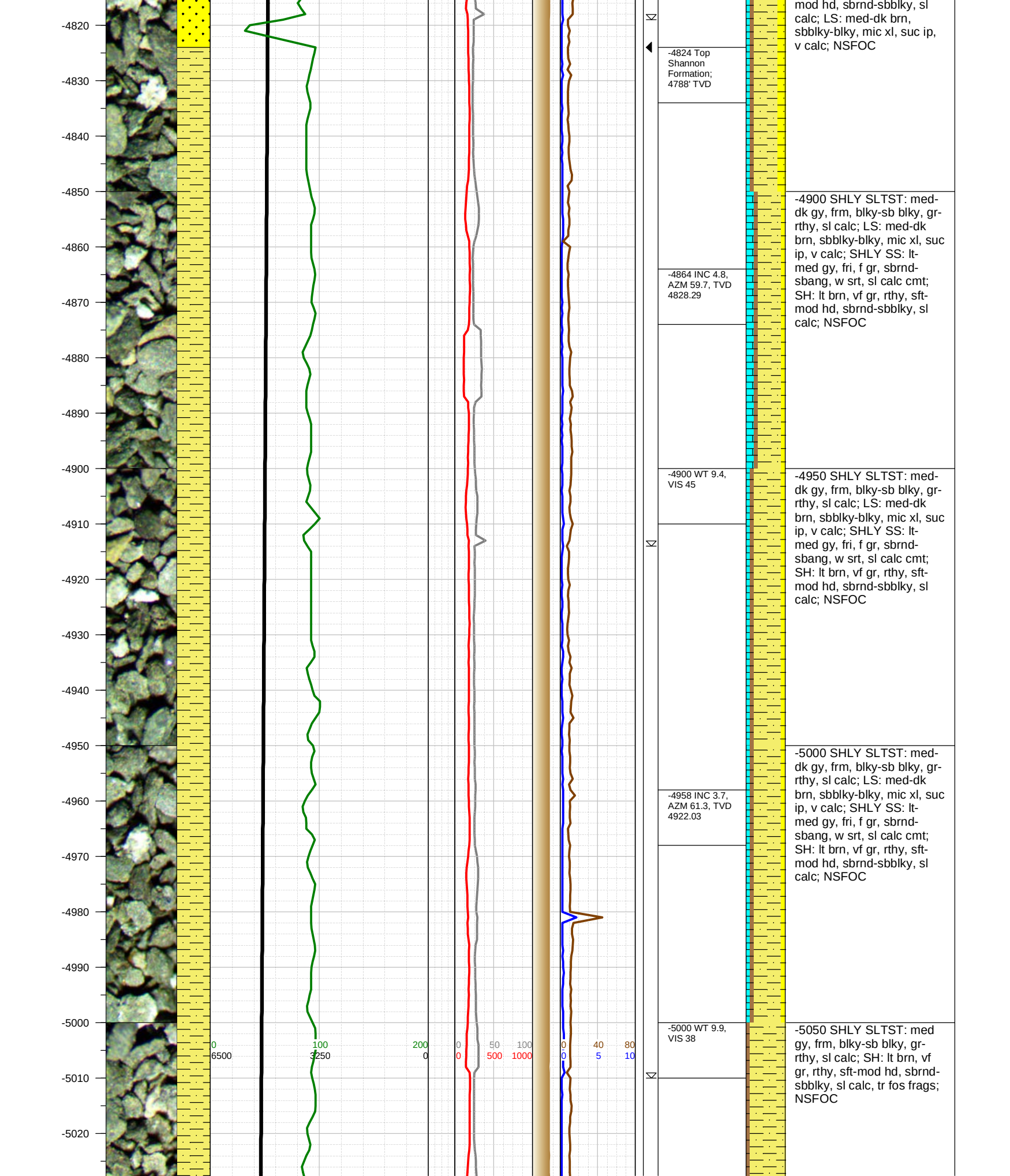
-4672 INC 6.7, AZM 64.7, TVD 4637.29
-4700 WT 9.7, VIS 36
-4768 INC 5.9, AZM 62.5, TVD 4732.71
-4800 WT 9.4, VIS 45
brn, s&p, sbrnd-sbang, f gr, w srt, w cmt, calc cmt; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc, tr fos frag; NSFOC
-4700 SS: wh, mlky, lt gy, lt brn, s&p, sbrnd-sbang, f gr, w srt, w cmt, calc cmt; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc, tr fos frag; NSFOC
-4750 SS: wh, mlky, lt gy, lt brn, s&p, sbrnd-sbang, f gr, w srt, w cmt, calc cmt; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc, tr fos frag; NSFOC
-4800 SS: wh, mlky, lt gy, lt brn, s&p, sbrnd-sbang, f gr, w srt, w cmt, calc cmt; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; tr fos frag; NSFOC
-4850 SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; SH: lt brn, vf gr, rthy, sft-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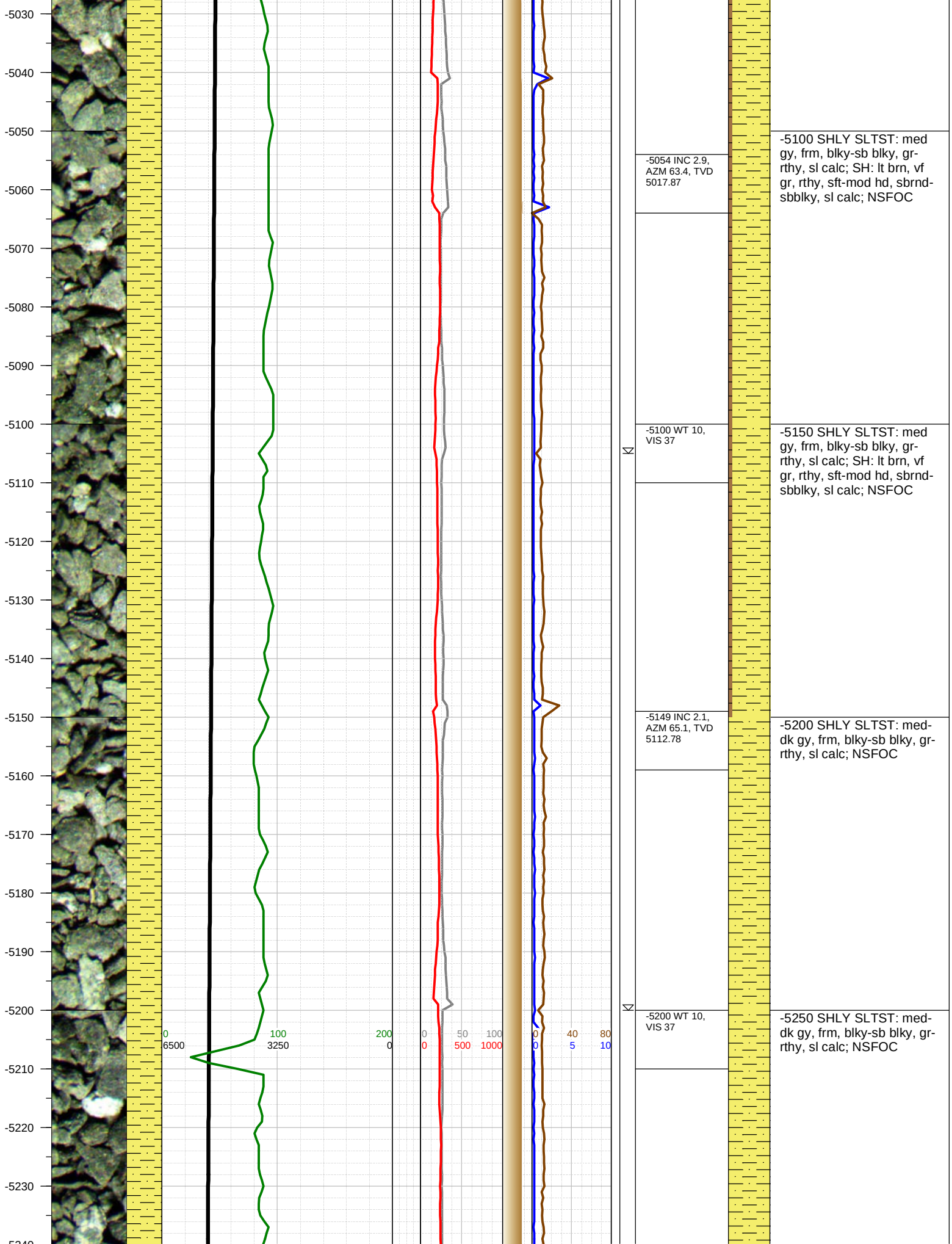
-4824 Top Shannon Formation; 4788' TVD
-4864 INC 4.8, AZM 59.7, TVD 4828.29
-4900 WT 9.4, VIS 45
-4958 INC 3.7, AZM 61.3, TVD 4922.03
-5000 WT 9.9, VIS 38
mod hd, sbrnd-sbblky, sl calc; LS: med-dk brn, sbblky-blky, mic xl, suc ip, v calc; NSFOC
-4900 SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; LS: med-dk brn, sbblky-blky, mic xl, suc ip, v calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; SH: lt brn, vf gr, rthy, sft-mod hd, sbrnd-sbblky, sl calc; NSFOC
-4950 SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; LS: med-dk brn, sbblky-blky, mic xl, suc ip, v calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; SH: lt brn, vf gr, rthy, sft-mod hd, sbrnd-sbblky, sl calc; NSFOC
-5000 SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; LS: med-dk brn, sbblky-blky, mic xl, suc ip, v calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; SH: lt brn, vf gr, rthy, sft-mod hd, sbrnd-sbblky, sl calc; NSFOC
-5050 SHLY SLTST: med gy, frm, blky-sb blky, gr-rthy, sl calc; SH: lt brn, vf gr, rthy, sft-mod hd, sbrnd-sbblky, sl calc, tr fos frags; NSFOC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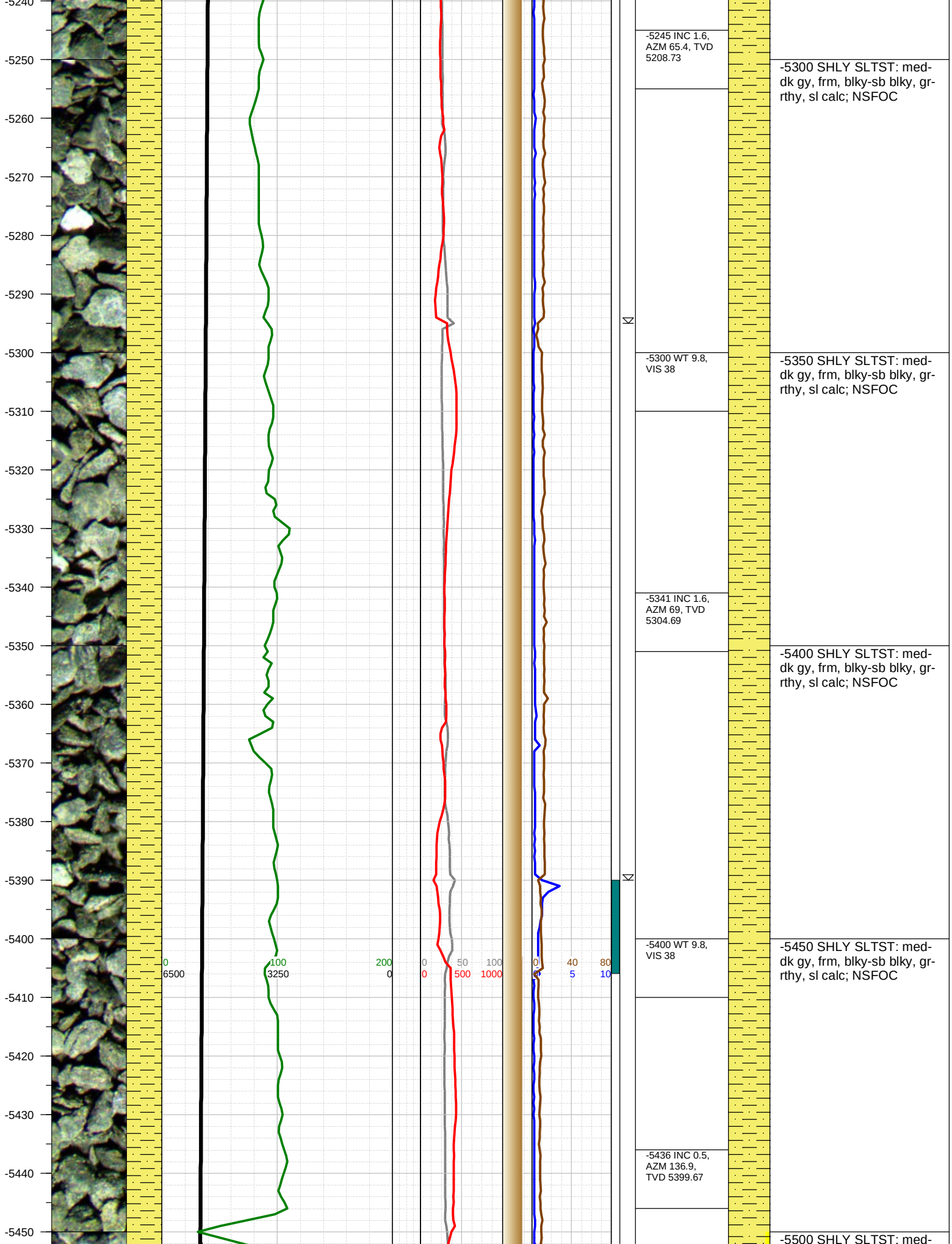
-5054 INC 2.9, AZM 63.4, TVD 5017.87
-5100 WT 10, VIS 37
-5149 INC 2.1, AZM 65.1, TVD 5112.78
-5200 WT 10, VIS 37
-5100 SHLY SLTST: med gy, frm, blky-sb blky, gr-rthy, sl calc; SH: lt brn, vf gr, rthy, sft-mod hd, sbrnd-sbblky, sl calc; NSFOC
-5150 SHLY SLTST: med gy, frm, blky-sb blky, gr-rthy, sl calc; SH: lt brn, vf gr, rthy, sft-mod hd, sbrnd-sbblky, sl calc; NSFOC
-5200 SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; NSFOC
-5250 SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; NSFOC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-5245 INC 1.6, AZM 65.4, TVD 5208.73
-5300 SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; NSFOC
-5300 WT 9.8, VIS 38
-5350 SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; NSFOC
-5341 INC 1.6, AZM 69, TVD 5304.69
-5400 SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; NSFOC
-5400 WT 9.8, VIS 38
-5450 SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; NSFOC
-5436 INC 0.5, AZM 136.9, TVD 5399.67
-5500 SHLY SLTST: med-
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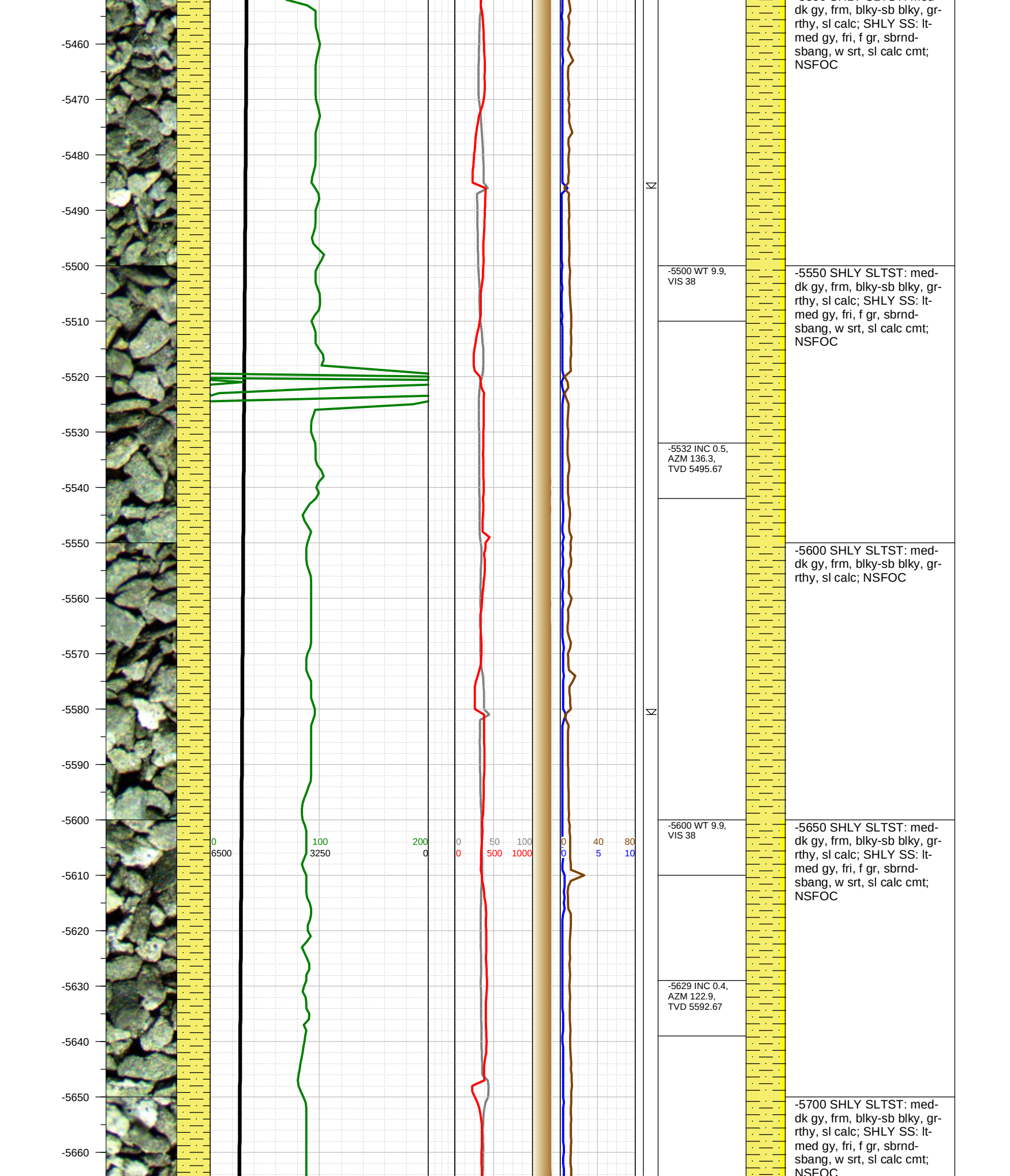
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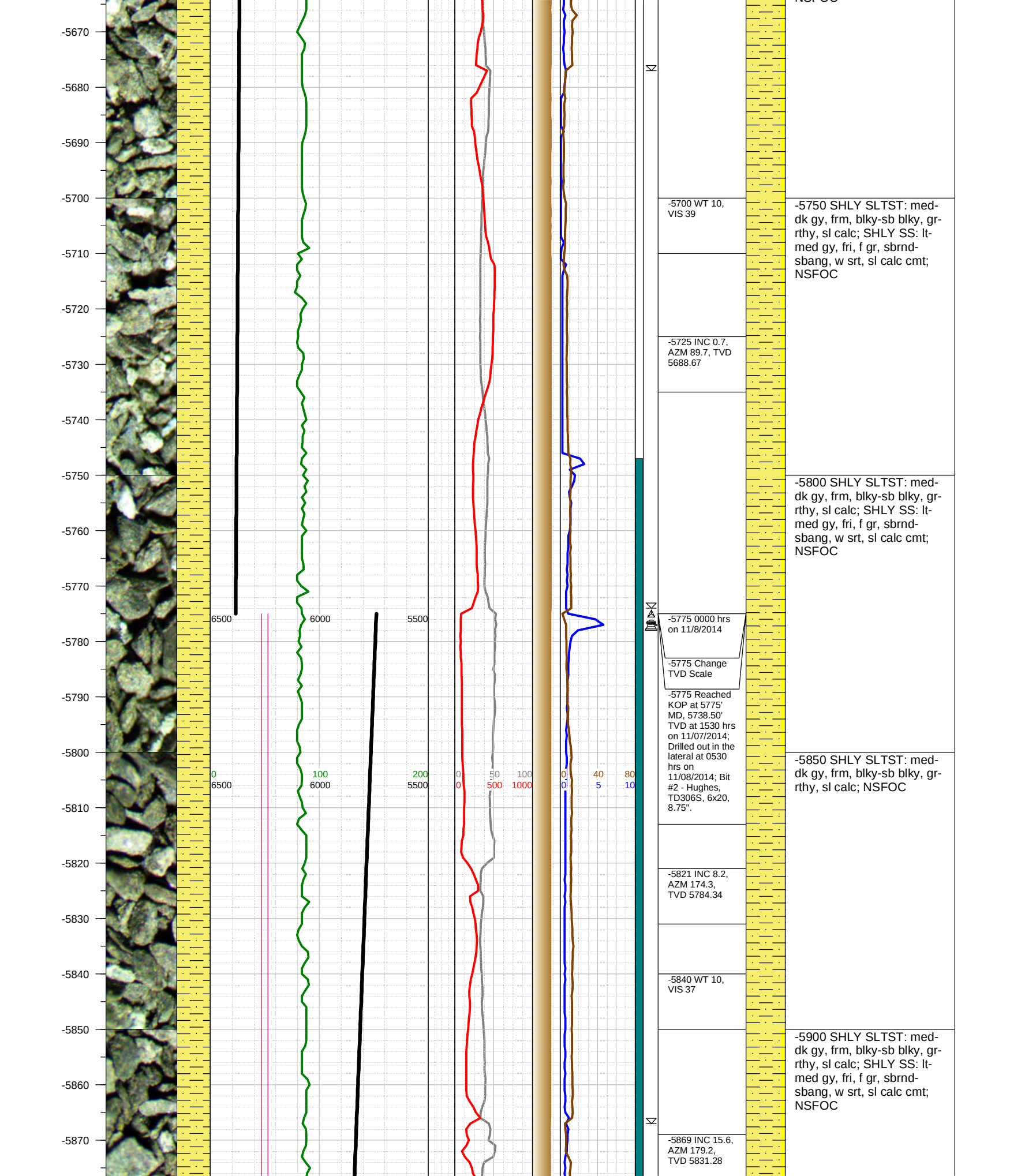
dk gy, frm, blky-sb blky, gr-
rthy, sl calc; SHLY SS: lt-
med gy, fri, f gr, sbrnd-
sbang, w srt, sl calc cmt;
NSFOC
-5500 WT 9.9,
VIS 38
-5550 SHLY SLTST: med-
dk gy, frm, blky-sb blky, gr-
rthy, sl calc; SHLY SS: lt-
med gy, fri, f gr, sbrnd-
sbang, w srt, sl calc cmt;
NSFOC
-5532 INC 0.5,
AZM 136.3,
TVD 5495.67
-5600 SHLY SLTST: med-
dk gy, frm, blky-sb blky, gr-
rthy, sl calc; NSFOC
-5600 WT 9.9,
VIS 38
-5650 SHLY SLTST: med-
dk gy, frm, blky-sb blky, gr-
rthy, sl calc; SHLY SS: lt-
med gy, fri, f gr, sbrnd-
sbang, w srt, sl calc cmt;
NSFOC
-5629 INC 0.4,
AZM 122.9,
TVD 5592.67
-5700 SHLY SLTST: med-
dk gy, frm, blky-sb blky, gr-
rthy, sl calc; SHLY SS: lt-
med gy, fri, f gr, sbrnd-
sbang, w srt, sl calc cmt;
NSFOC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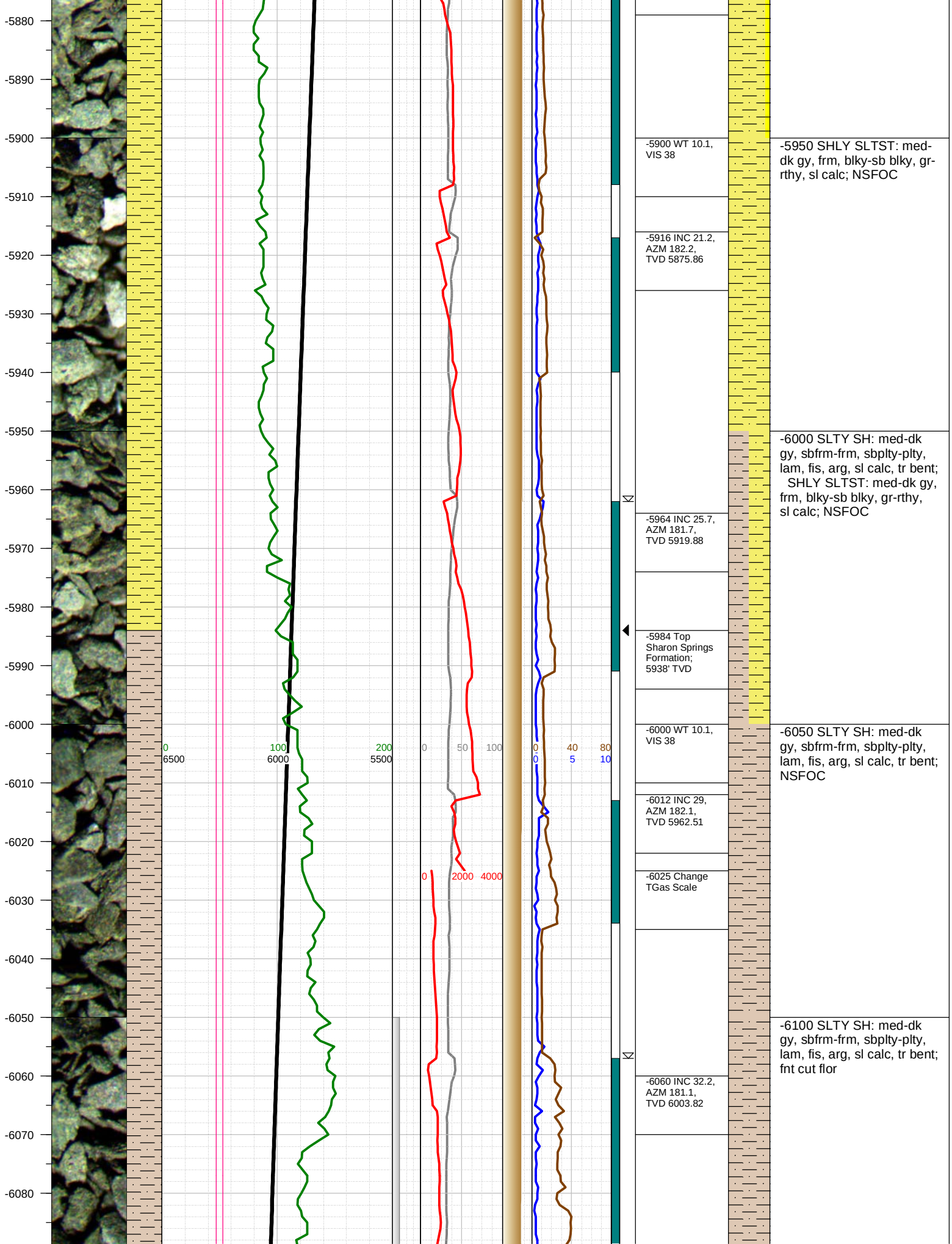
-5700 WT 10, VIS 39
-5725 INC 0.7, AZM 89.7, TVD 5688.67
-5775 0000 hrs on 11/8/2014
-5775 Change TVD Scale
-5775 Reached KOP at 5775' MD, 5738.50' TVD at 1530 hrs on 11/07/2014; Drilled out in the lateral at 0530 hrs on 11/08/2014; Bit #2 - Hughes, TD306S, 6x20, 8.75".
-5821 INC 8.2, AZM 174.3, TVD 5784.34
-5840 WT 10, VIS 37
-5869 INC 15.6, AZM 179.2, TVD 5831.28
-5750 SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; NSFOC
-5800 SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; NSFOC
-5850 SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; NSFOC
-5900 SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; NSFOC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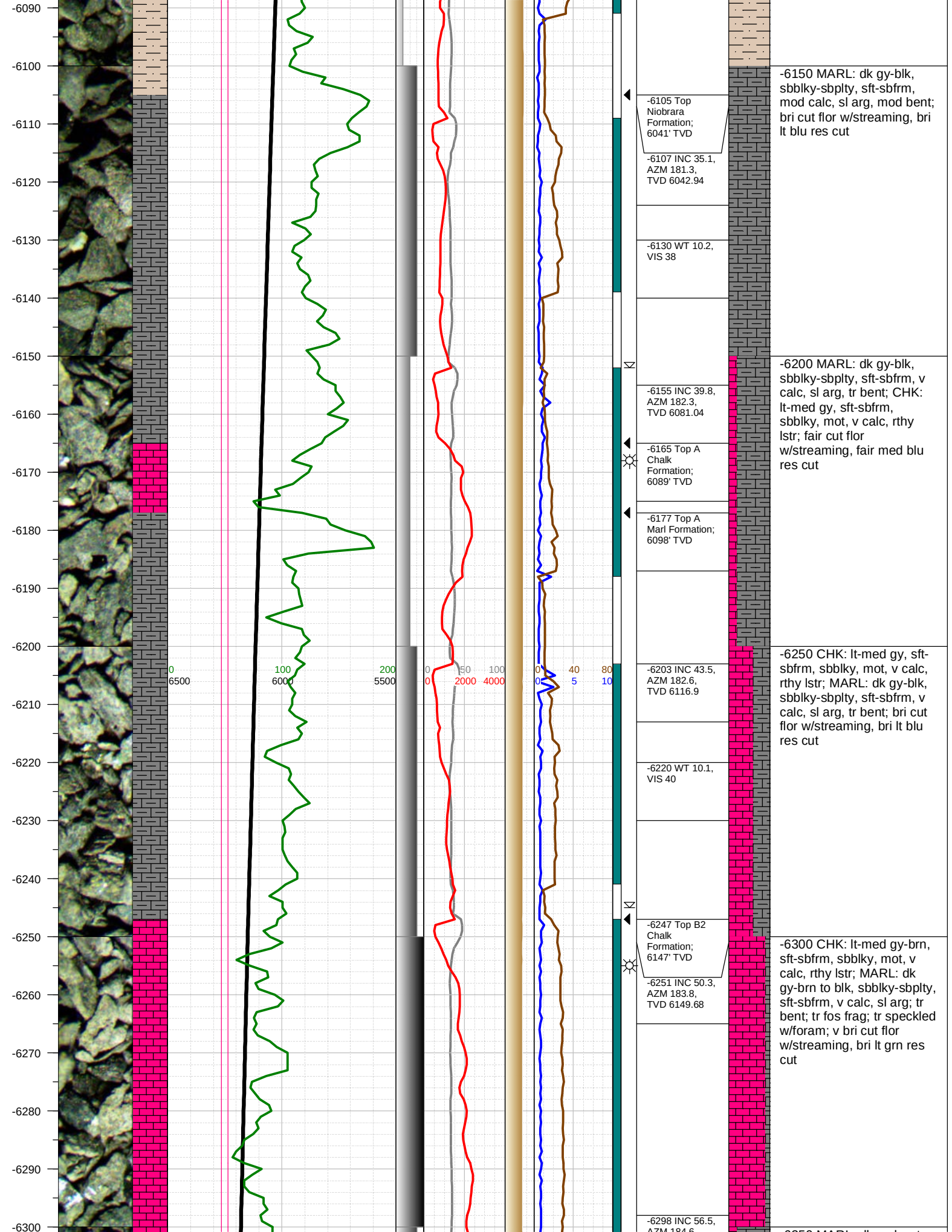
-5900 WT 10.1, VIS 38
-5916 INC 21.2, AZM 182.2, TVD 5875.86
-5964 INC 25.7, AZM 181.7, TVD 5919.88
-5984 Top Sharon Springs Formation; 5938' TVD
-6000 WT 10.1, VIS 38
-6012 INC 29, AZM 182.1, TVD 5962.51
-6025 Change TGas Scale
-6060 INC 32.2, AZM 181.1, TVD 6003.82
-5950 SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; NSFOC
-6000 SLTY SH: med-dk gy, sbfrm-frm, sbplty-plty, lam, fis, arg, sl calc, tr bent; SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; NSFOC
-6050 SLTY SH: med-dk gy, sbfrm-frm, sbplty-plty, lam, fis, arg, sl calc, tr bent; NSFOC
-6100 SLTY SH: med-dk gy, sbfrm-frm, sbplty-plty, lam, fis, arg, sl calc, tr bent; fnt cut flor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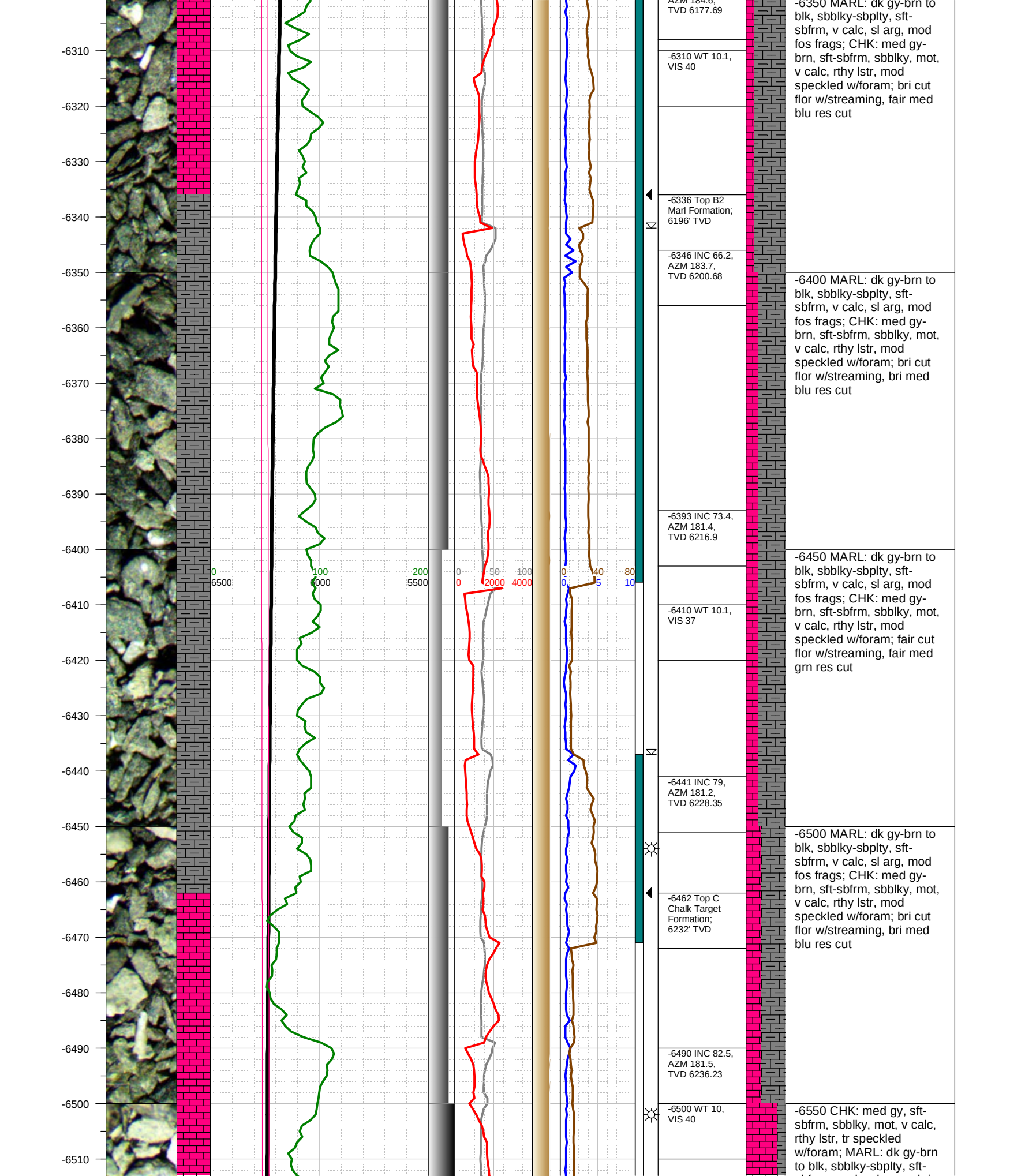
-6105 Top Niobrara Formation; 6041' TVD
-6107 INC 35.1, AZM 181.3, TVD 6042.94
-6130 WT 10.2, VIS 38
-6155 INC 39.8, AZM 182.3, TVD 6081.04
-6165 Top A Chalk Formation; 6089' TVD
-6177 Top A Marl Formation; 6098' TVD
-6203 INC 43.5, AZM 182.6, TVD 6116.9
-6220 WT 10.1, VIS 40
-6247 Top B2 Chalk Formation; 6147' TVD
-6251 INC 50.3, AZM 183.8, TVD 6149.68
-6298 INC 56.5,
-6150 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, mod bent; bri cut flor w/streaming, bri lt blu res cut
-6200 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr bent; CHK: lt-med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; fair cut flor w/streaming, fair med blu res cut
-6250 CHK: lt-med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr bent; bri cut flor w/streaming, bri lt blu res cut
-6300 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-brn to blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg; tr bent; tr fos frag; tr speckled w/foram; v bri cut flor w/streaming, bri lt grn res cut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AZM 184.6, TVD 6177.69
-6310 WT 10.1, VIS 40
-6336 Top B2 Marl Formation; 6196' TVD
-6346 INC 66.2, AZM 183.7, TVD 6200.68
-6350 MARL: dk gy-brn to blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags; CHK: med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, mod speckled w/foram; bri cut flor w/streaming, fair med blu res cut
-6400 MARL: dk gy-brn to blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags; CHK: med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, mod speckled w/foram; bri cut flor w/streaming, bri med blu res cut
-6393 INC 73.4, AZM 181.4, TVD 6216.9
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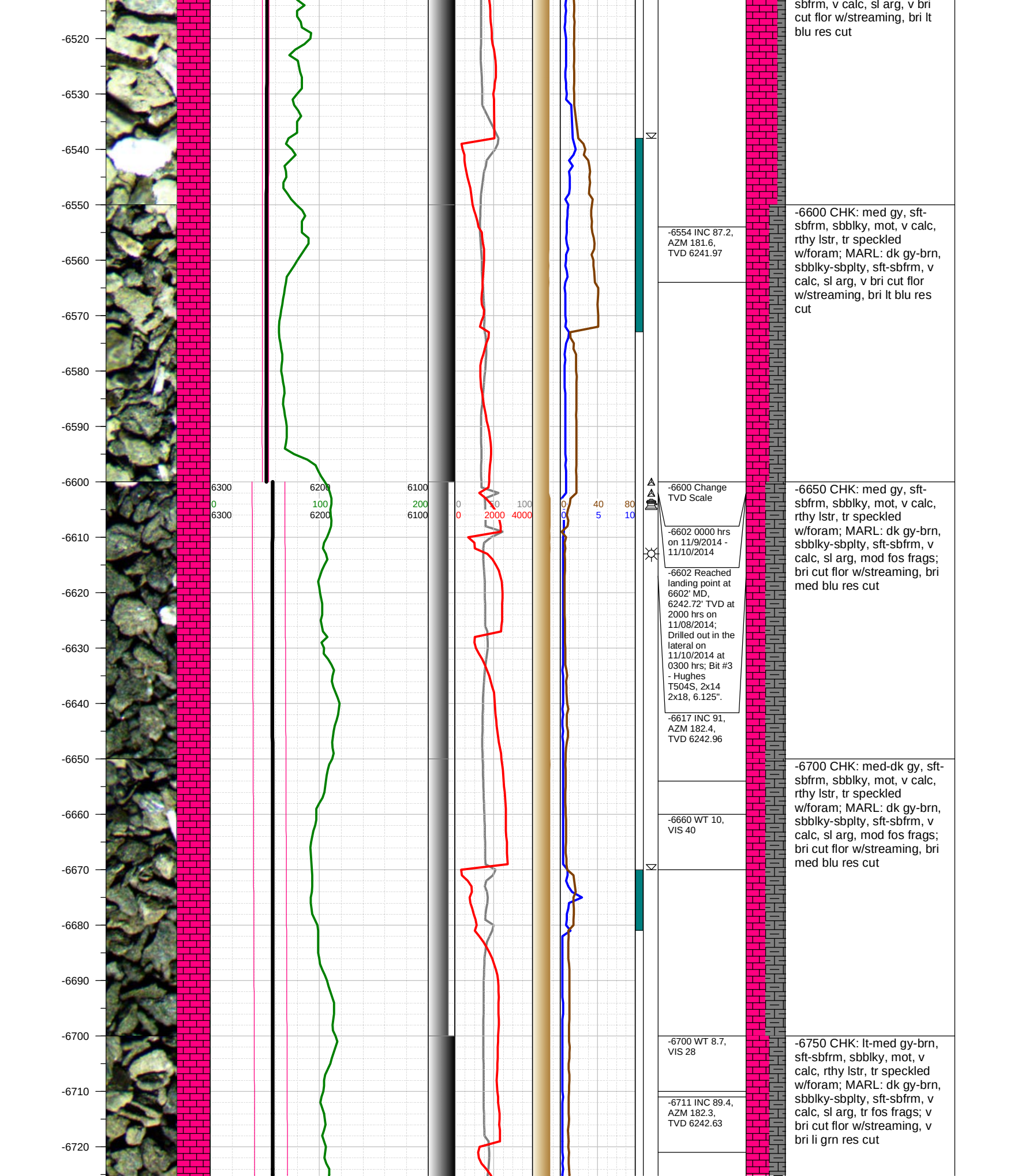
6500 6000 5500
0 50 100
0 2000 4000
0 40 80
0 5 10
-6410 WT 10.1, VIS 37
-6450 MARL: dk gy-brn to blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags; CHK: med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, mod speckled w/foram; fair cut flor w/streaming, fair med grn res cut
-6441 INC 79, AZM 181.2, TVD 6228.35
-6462 Top C Chalk Target Formation; 6232' TVD
-6500 MARL: dk gy-brn to blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags; CHK: med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, mod speckled w/foram; bri cut flor w/streaming, bri med blu res cut
-6490 INC 82.5, AZM 181.5, TVD 6236.23
-6500 WT 10, VIS 40
-6550 CHK: med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn to blk, sbblky-sbplty, sft-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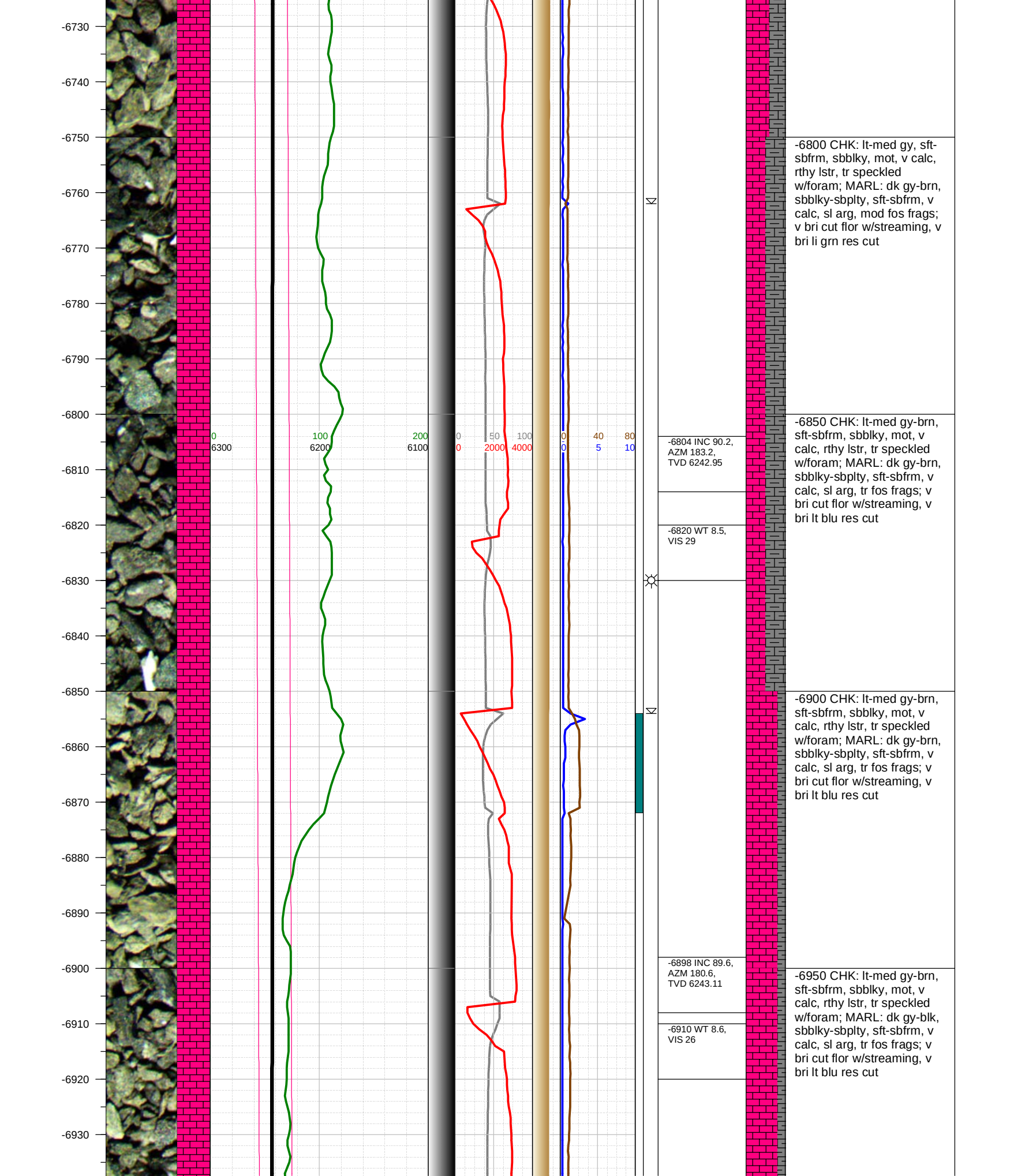
sbfrm, v calc, sl arg, v bri cut flor w/streaming, bri lt blu res cut
-6554 INC 87.2, AZM 181.6, TVD 6241.97
-6600 CHK: med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn, sbblky-sbplty, sft-sbfrm, v calc, sl arg, v bri cut flor w/streaming, bri lt blu res cut
-6600 Change TVD Scale
-6602 0000 hrs on 11/9/2014 - 11/10/2014
-6602 Reached landing point at 6602' MD, 6242.72' TVD at 2000 hrs on 11/08/2014; Drilled out in the lateral on 11/10/2014 at 0300 hrs; Bit #3 - Hughes T504S, 2x14 2x18, 6.125".
-6617 INC 91, AZM 182.4, TVD 6242.96
-6650 CHK: med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags; bri cut flor w/streaming, bri med blu res cut
-6660 WT 10, VIS 40
-6700 CHK: med-dk gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags; bri cut flor w/streaming, bri med blu res cut
-6700 WT 8.7, VIS 28
-6711 INC 89.4, AZM 182.3, TVD 6242.63
-6750 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags; v bri cut flor w/streaming, v bri li grn res cut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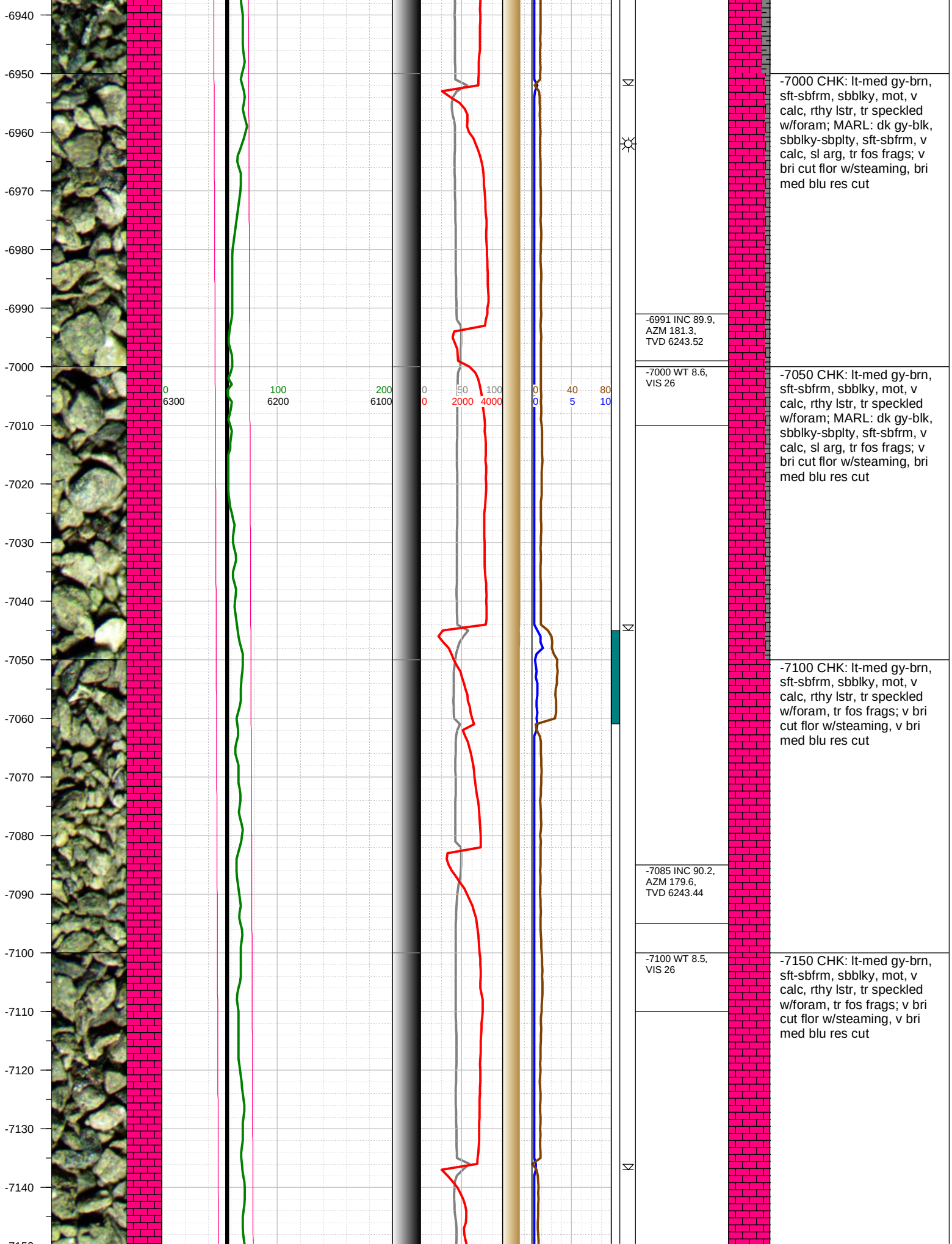
-6804 INC 90.2, AZM 183.2, TVD 6242.95
-6820 WT 8.5, VIS 29
-6898 INC 89.6, AZM 180.6, TVD 6243.11
-6910 WT 8.6, VIS 26
-6800 CHK: lt-med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags; v bri cut flor w/streaming, v bri li grn res cut
-6850 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags; v bri cut flor w/streaming, v bri lt blu res cut
-6900 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags; v bri cut flor w/streaming, v bri lt blu res cut
-6950 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags; v bri cut flor w/streaming, v bri lt blu res cut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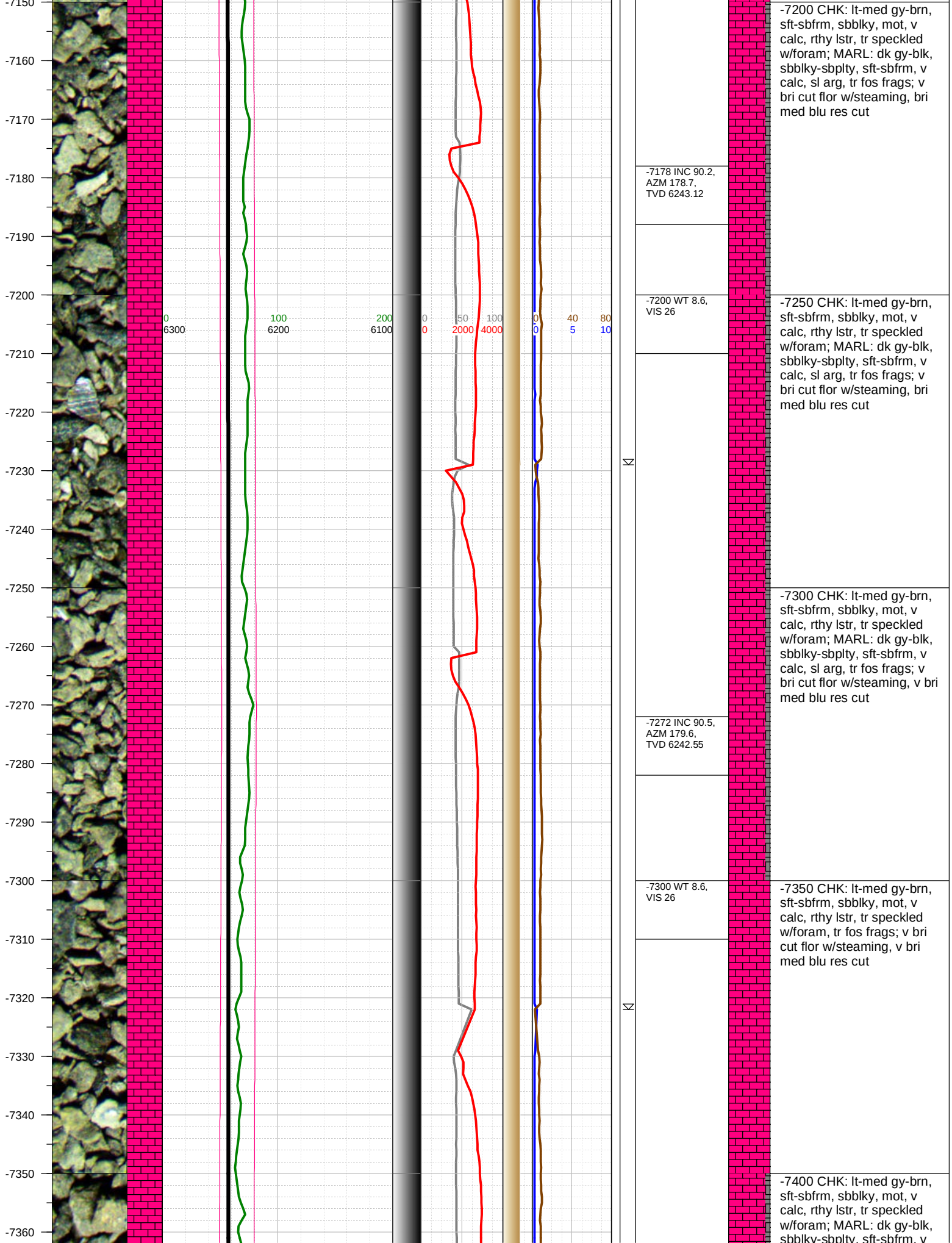
-6991 INC 89.9, AZM 181.3, TVD 6243.52
-7000 WT 8.6, VIS 26
-7085 INC 90.2, AZM 179.6, TVD 6243.44
-7100 WT 8.5, VIS 26
-7000 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags; v bri cut flor w/steaming, bri med blu res cut
-7050 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags; v bri cut flor w/steaming, bri med blu res cut
-7100 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram, tr fos frags; v bri cut flor w/steaming, v bri med blu res cut
-7150 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram, tr fos frags; v bri cut flor w/steaming, v bri med blu res cut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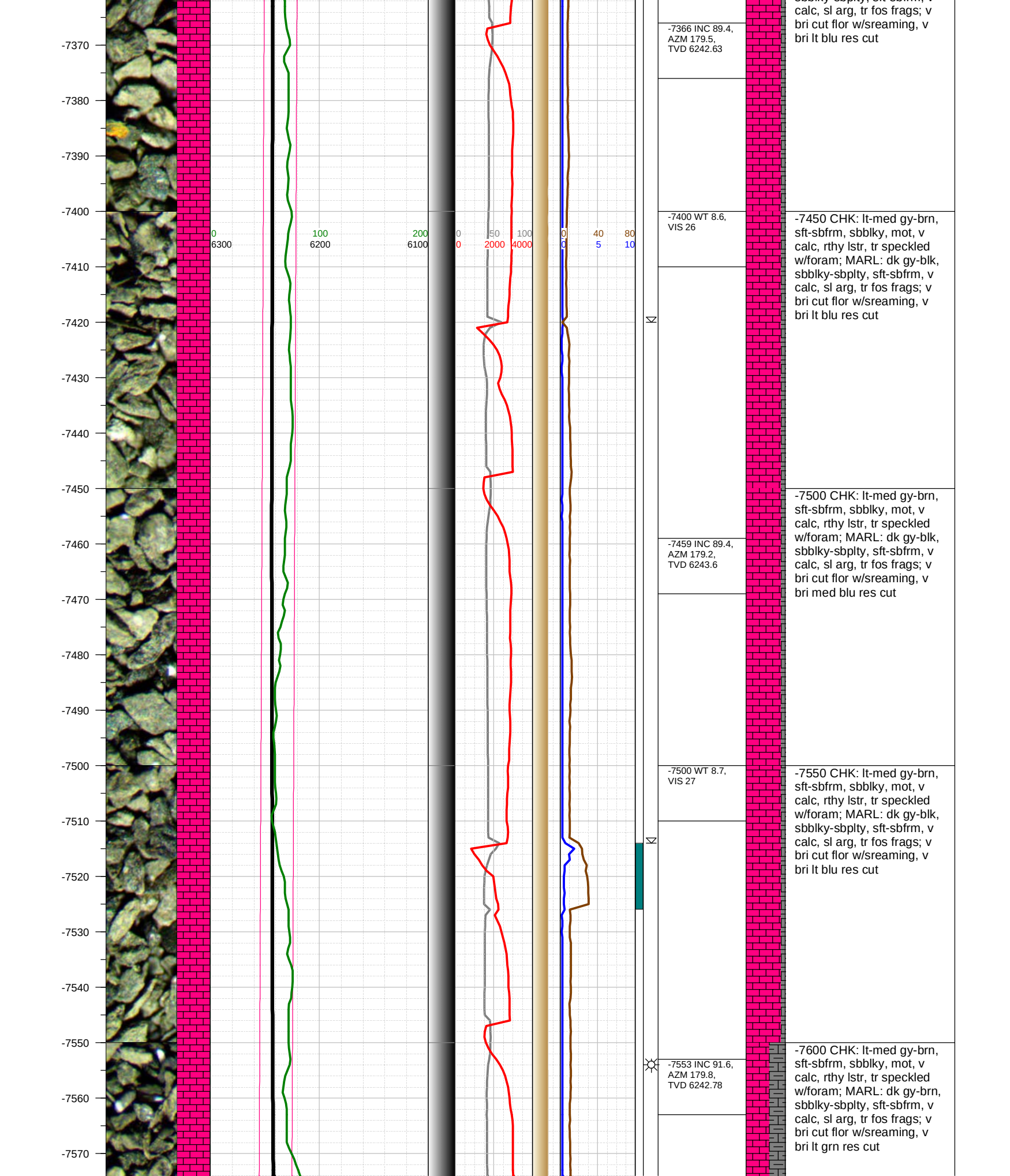
-7178 INC 90.2, AZM 178.7, TVD 6243.12
-7200 WT 8.6, VIS 26
-7272 INC 90.5, AZM 179.6, TVD 6242.55
-7300 WT 8.6, VIS 26
-7200 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags; v bri cut flor w/steaming, bri med blu res cut
-7250 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags; v bri cut flor w/steaming, bri med blu res cut
-7300 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags; v bri cut flor w/steaming, v bri med blu res cut
-7350 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram, tr fos frags; v bri cut flor w/steaming, v bri med blu res cut
-7400 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v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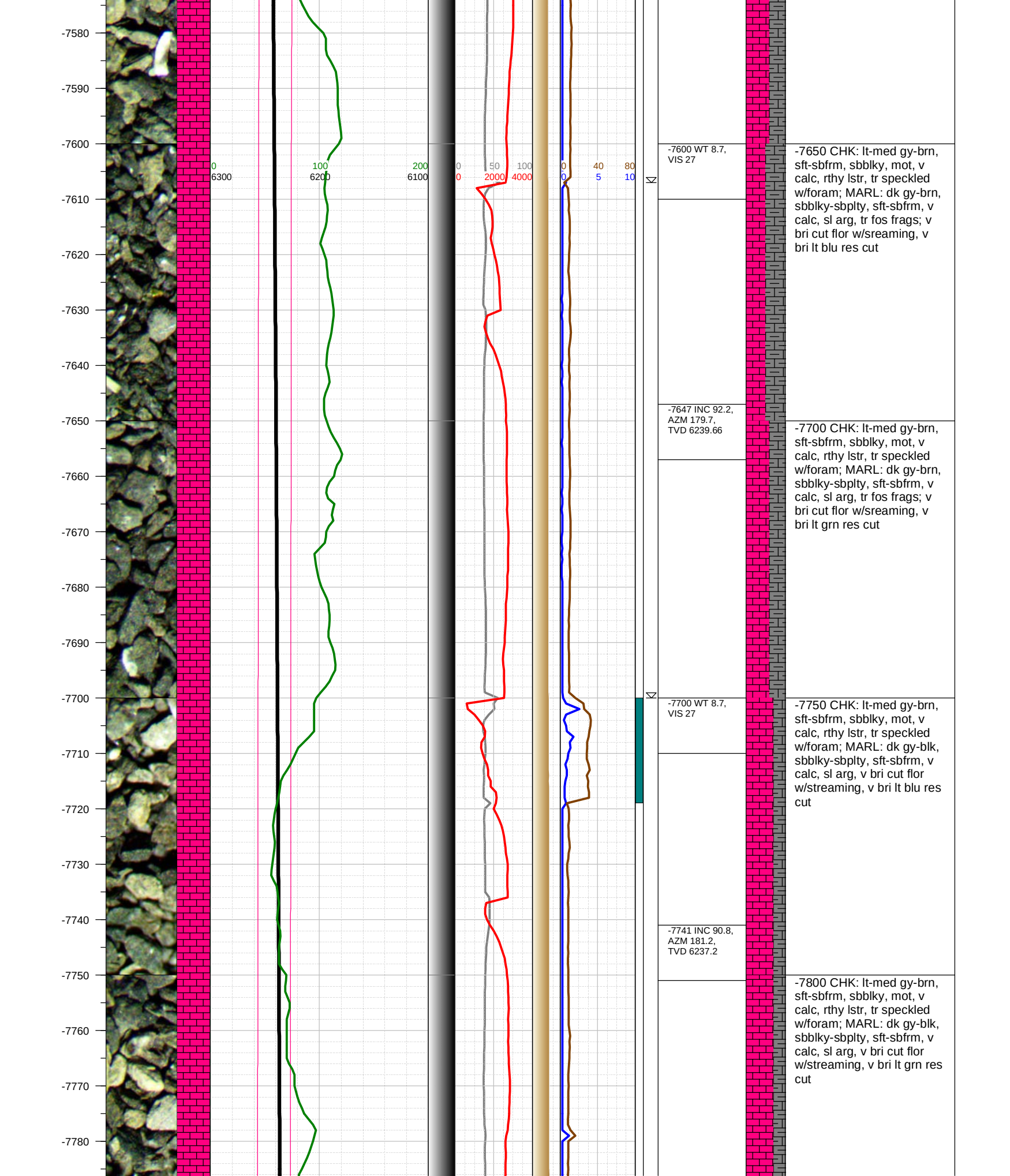
-7366 INC 89.4, AZM 179.5, TVD 6242.63
-7400 WT 8.6, VIS 26
-7459 INC 89.4, AZM 179.2, TVD 6243.6
-7500 WT 8.7, VIS 27
-7553 INC 91.6, AZM 179.8, TVD 6242.78
calc, sl arg, tr fos frags; v bri cut flor w/sreaming, v bri lt blu res cut
-7450 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags; v bri cut flor w/sreaming, v bri lt blu res cut
-7500 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags; v bri cut flor w/sreaming, v bri med blu res cut
-7550 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags; v bri cut flor w/sreaming, v bri lt blu res cut
-7600 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags; v bri cut flor w/sreaming, v bri lt grn res cut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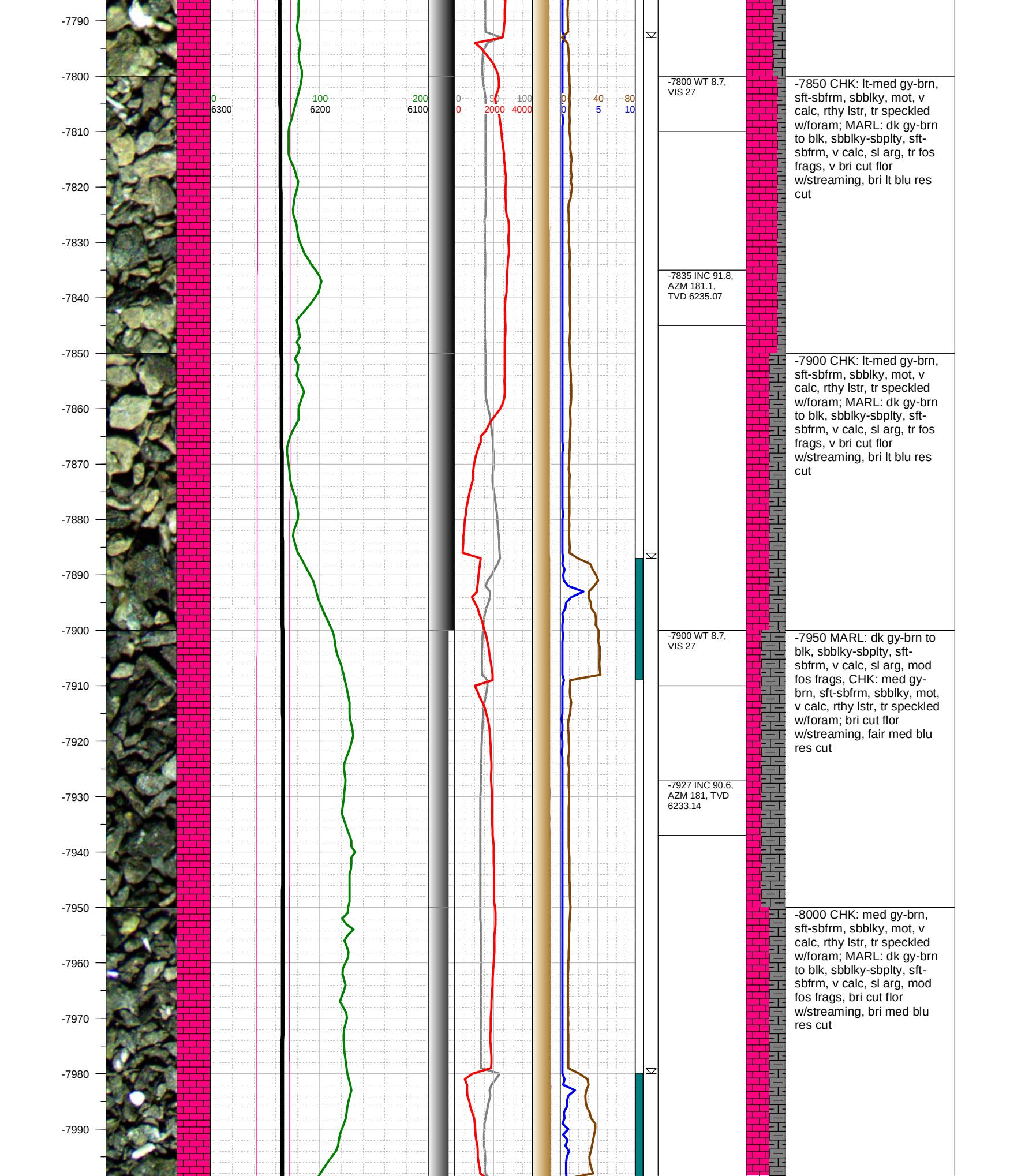
-7650 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags; v bri cut flor w/sreaming, v bri lt blu res cut
-7647 INC 92.2, AZM 179.7, TVD 6239.66
-7700 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags; v bri cut flor w/sreaming, v bri lt grn res cut
-7700 WT 8.7, VIS 27
-7750 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, v bri cut flor w/streaming, v bri lt blu res cut
-7741 INC 90.8, AZM 181.2, TVD 6237.2
-7800 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, v bri cut flor w/streaming, v bri lt grn res cut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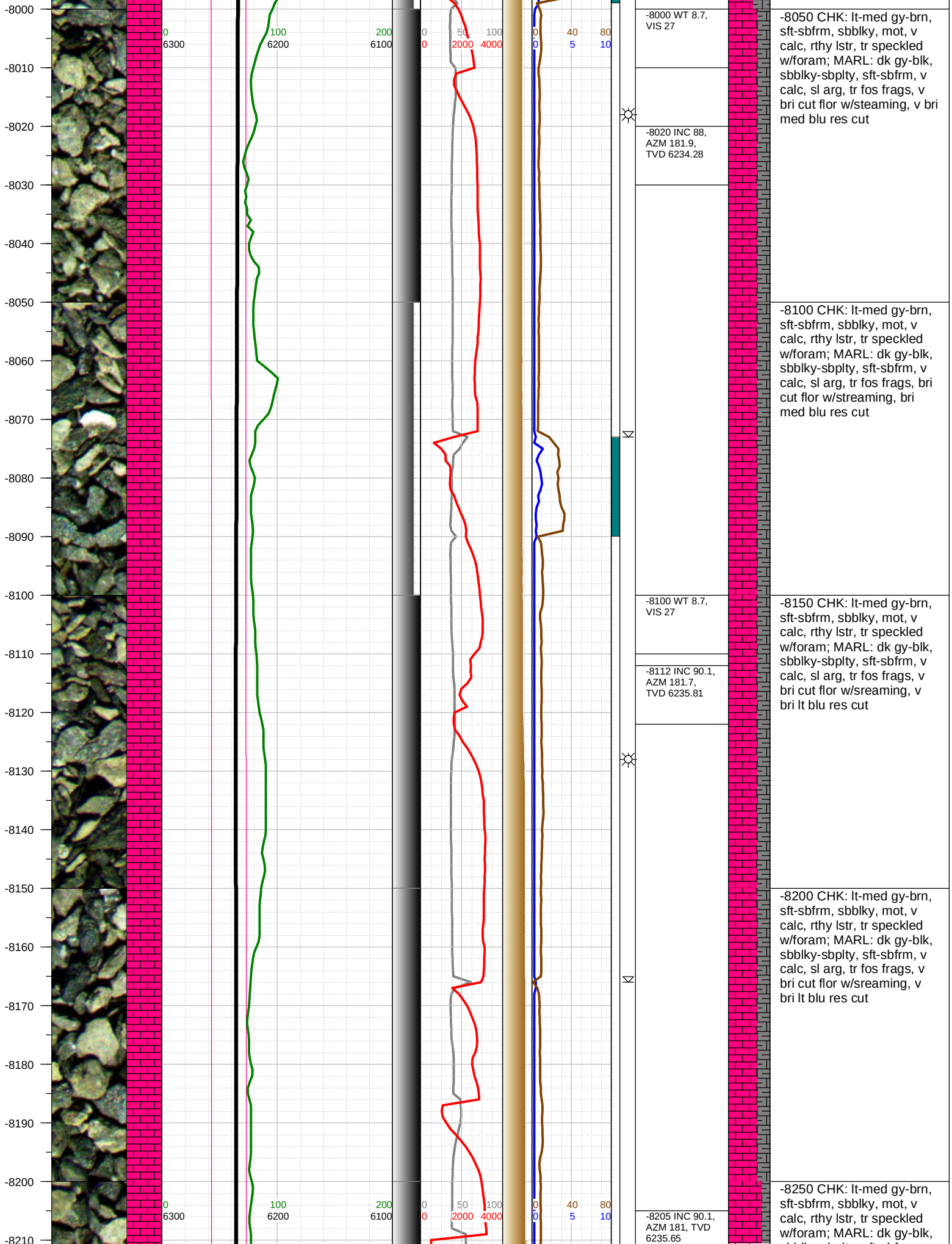
-7850 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn to blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, bri lt blu res cut
-7835 INC 91.8, AZM 181.1, TVD 6235.07
-7900 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn to blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, bri lt blu res cut
-7900 WT 8.7, VIS 27
-7950 MARL: dk gy-brn to blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags, CHK: med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; bri cut flor w/streaming, fair med blu res cut
-7927 INC 90.6, AZM 181, TVD 6233.14
-8000 CHK: med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn to blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags, bri cut flor w/streaming, bri med blu res cut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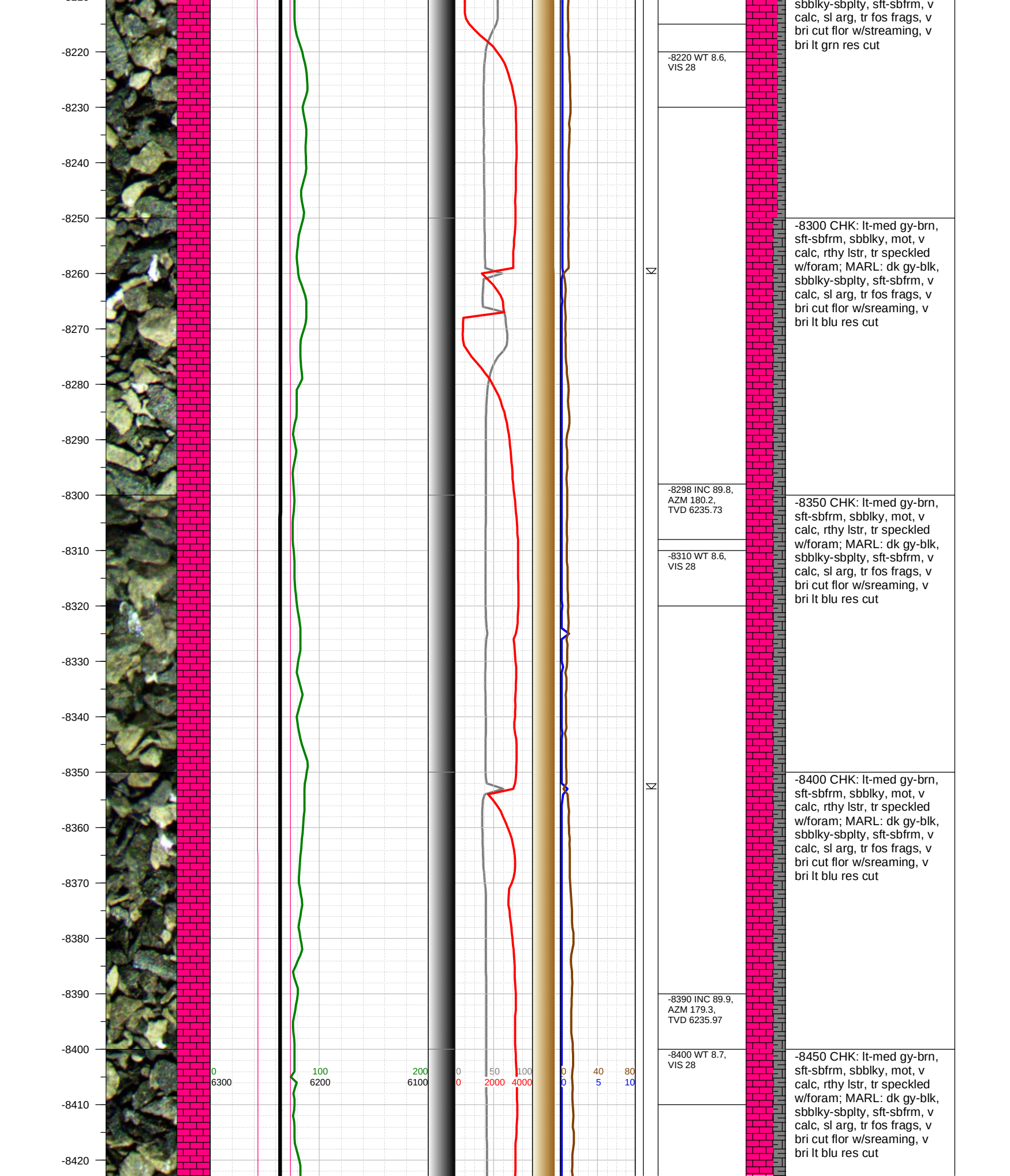
-8000 WT 8.7, VIS 27
-8020 INC 88, AZM 181.9, TVD 6234.28
-8100 WT 8.7, VIS 27
-8112 INC 90.1, AZM 181.7, TVD 6235.81
-8205 INC 90.1, AZM 181, TVD 6235.65
-8050 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/steaming, v bri med blu res cut
-8100 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, bri cut flor w/streaming, bri med blu res cut
-8150 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/sreaming, v bri lt blu res cut
-8200 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/sreaming, v bri lt blu res cut
-8250 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk,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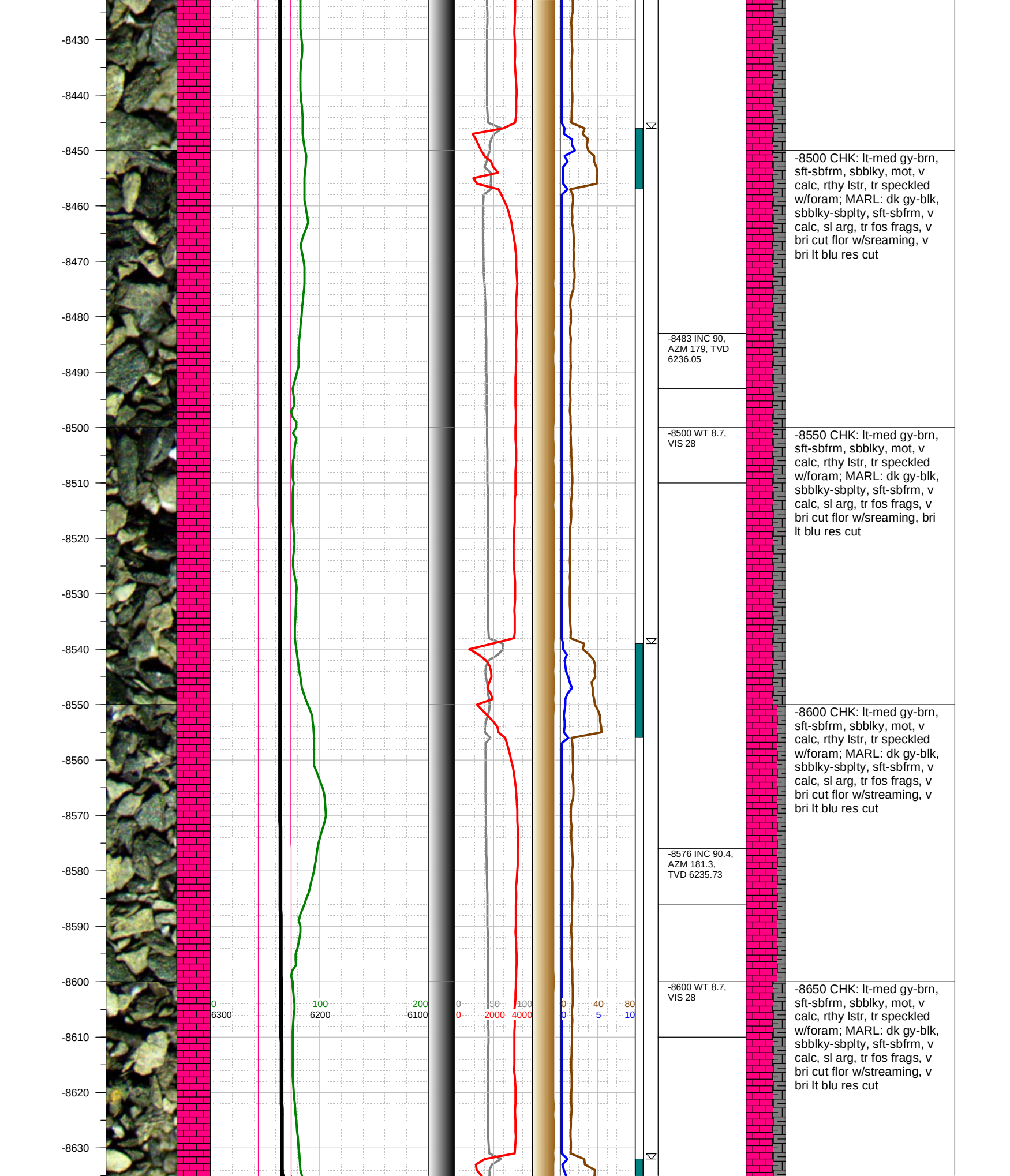
-8298 INC 89.8, AZM 180.2, TVD 6235.73
-8310 WT 8.6, VIS 28
-8390 INC 89.9, AZM 179.3, TVD 6235.97
-8400 WT 8.7, VIS 28
sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri lt grn res cut
-8300 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/sreaming, v bri lt blu res cut
-8350 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/sreaming, v bri lt blu res cut
-8400 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/sreaming, v bri lt blu res cut
-8450 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/sreaming, v bri lt blu res cut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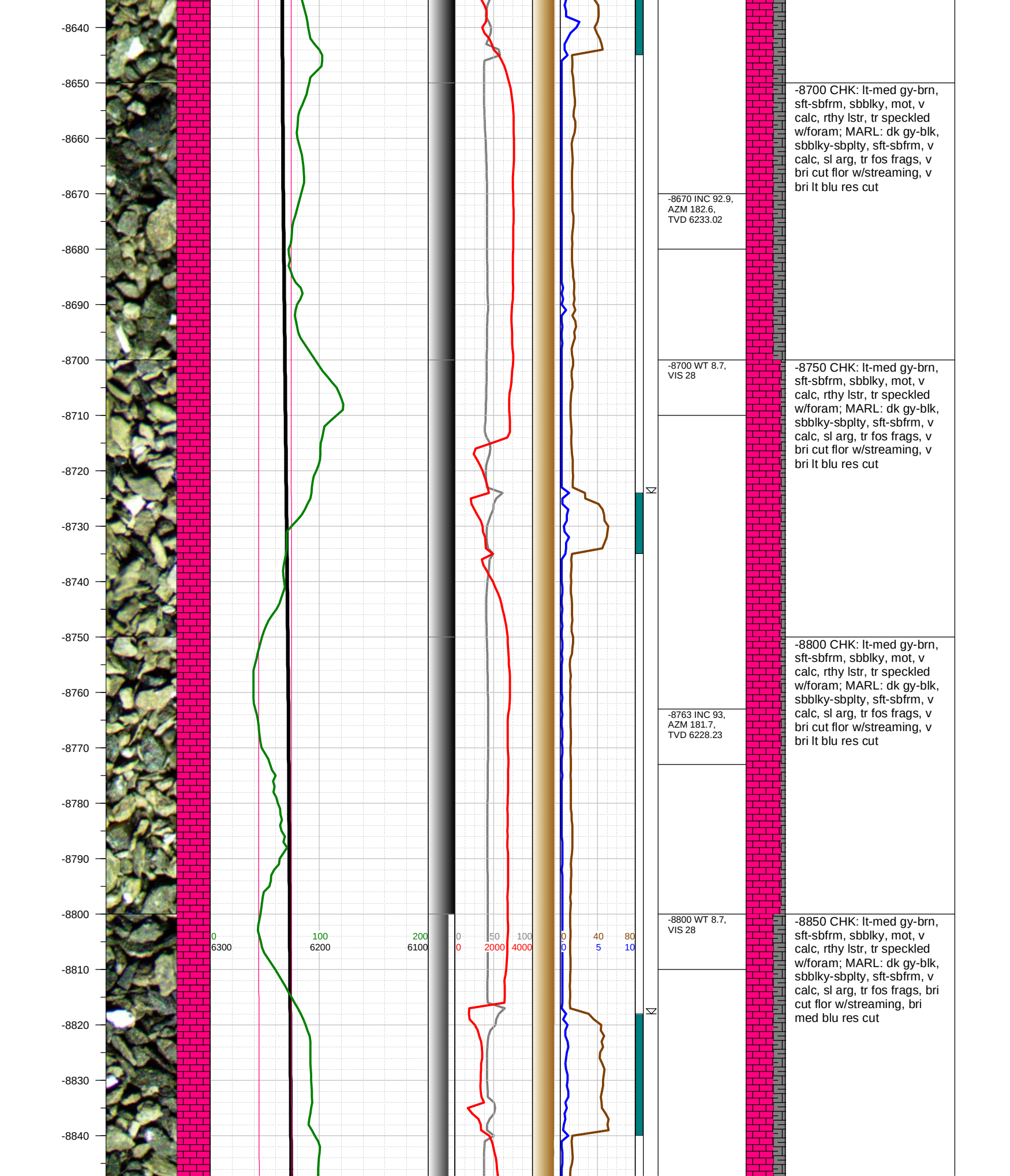
-8483 INC 90, AZM 179, TVD 6236.05
-8500 WT 8.7, VIS 28
-8550 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/sreaming, bri lt blu res cut
-8600 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-8576 INC 90.4, AZM 181.3, TVD 6235.73
-8600 WT 8.7, VIS 28
-8650 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri lt blu res cut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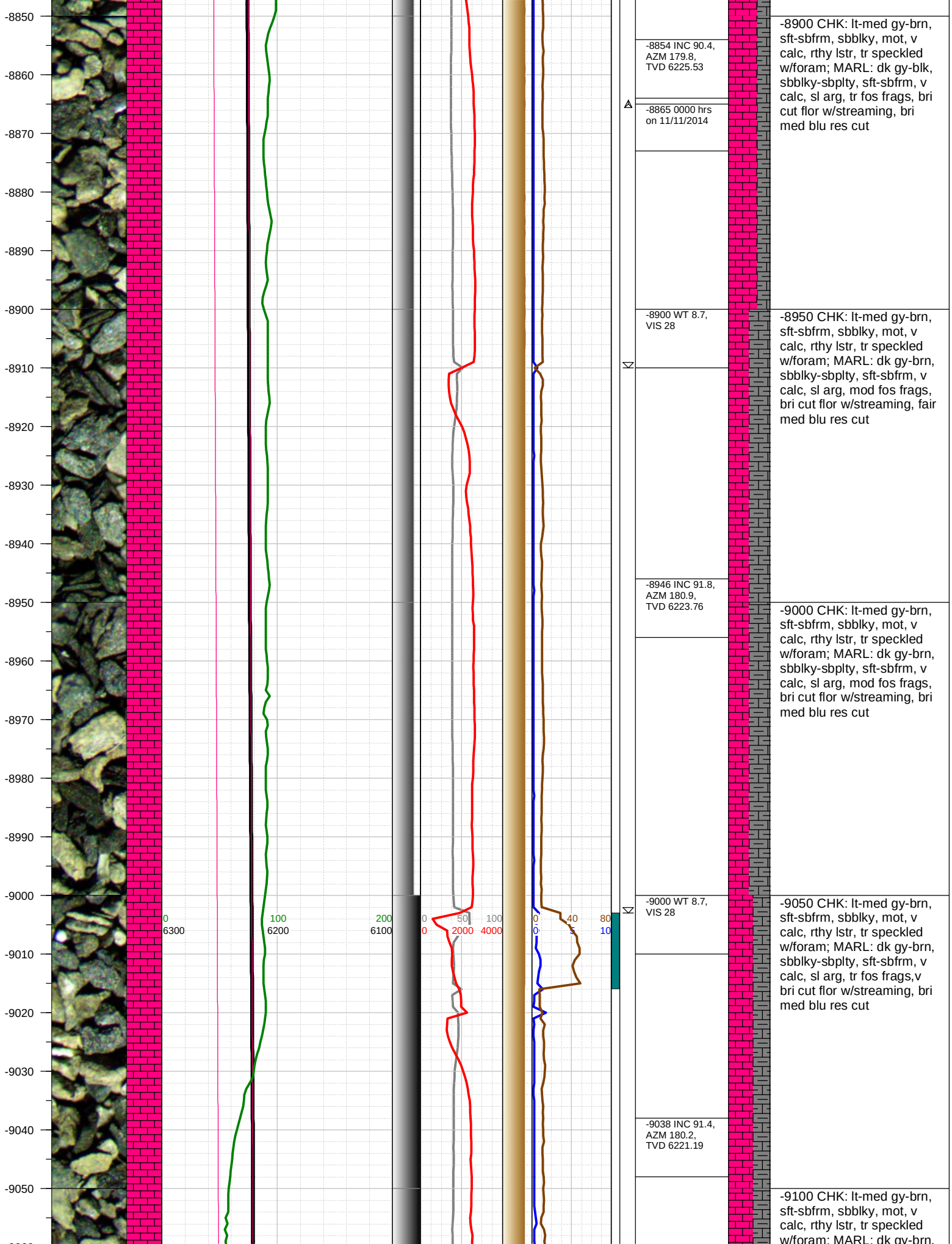
-8670 INC 92.9, AZM 182.6, TVD 6233.02
-8700 WT 8.7, VIS 28
-8750 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-8800 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-8763 INC 93, AZM 181.7, TVD 6228.23
-8800 WT 8.7, VIS 28
-8850 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, bri cut flor w/streaming, bri med blu res cut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-8865 0000 hrs on 11/11/2014
-8900 WT 8.7, VIS 28
-8946 INC 91.8, AZM 180.9, TVD 6223.76
-9000 WT 8.7, VIS 28
-9038 INC 91.4, AZM 180.2, TVD 6221.19
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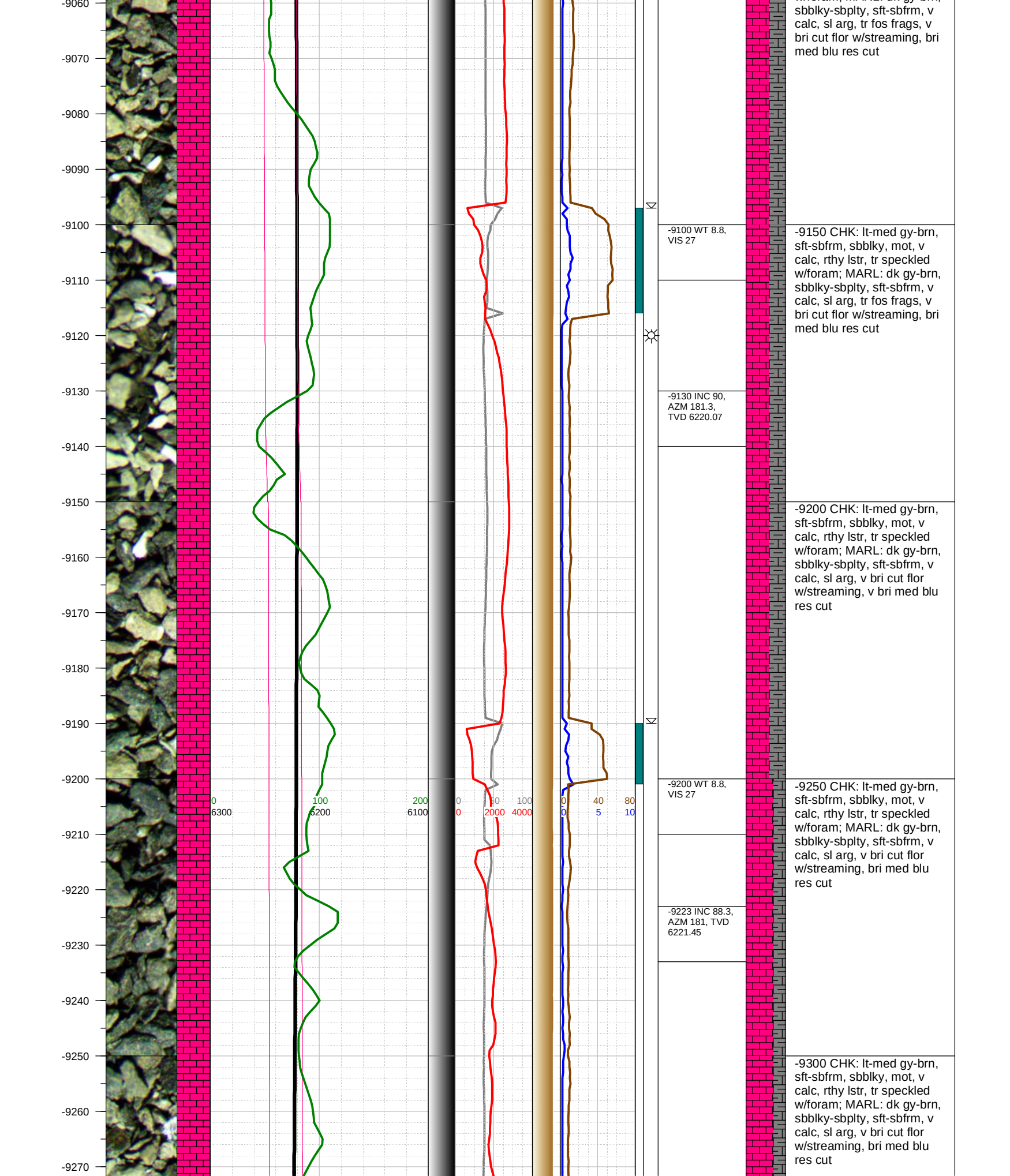
-8900 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, bri cut flor w/streaming, bri med blu res cut
-8950 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags, bri cut flor w/streaming, fair med blu res cut
-9000 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags, bri cut flor w/streaming, bri med blu res cut
-9050 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags,v bri cut flor w/streaming, bri med blu res cut
-9100 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn,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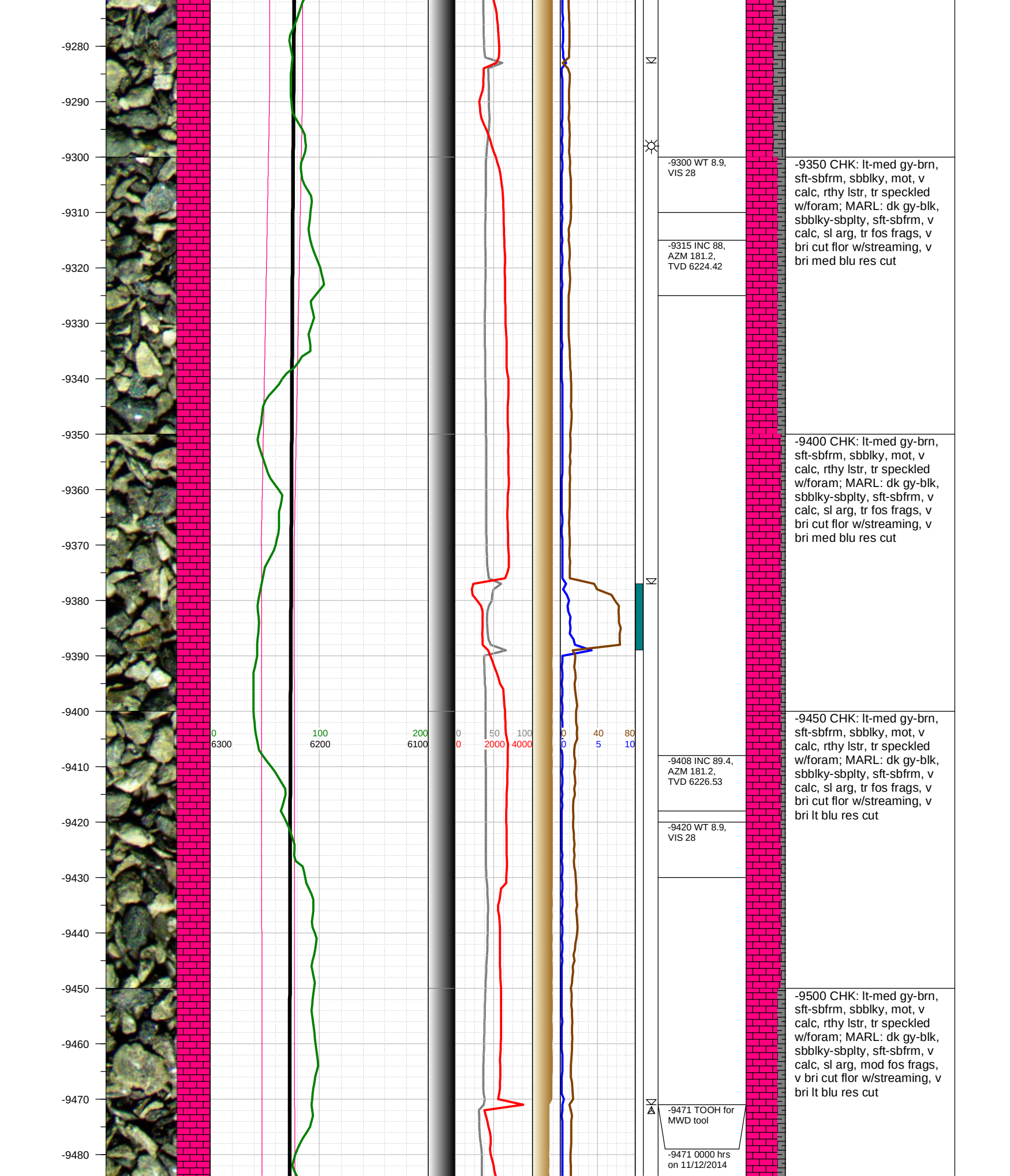
-9100 WT 8.8, VIS 27
-9130 INC 90, AZM 181.3, TVD 6220.07
-9200 WT 8.8, VIS 27
-9223 INC 88.3, AZM 181, TVD 6221.45
sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, bri med blu res cut
-9150 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, bri med blu res cut
-9200 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn, sbblky-sbplty, sft-sbfrm, v calc, sl arg, v bri cut flor w/streaming, v bri med blu res cut
-9250 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn, sbblky-sbplty, sft-sbfrm, v calc, sl arg, v bri cut flor w/streaming, bri med blu res cut
-9300 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-brn, sbblky-sbplty, sft-sbfrm, v calc, sl arg, v bri cut flor w/streaming, bri med blu res cut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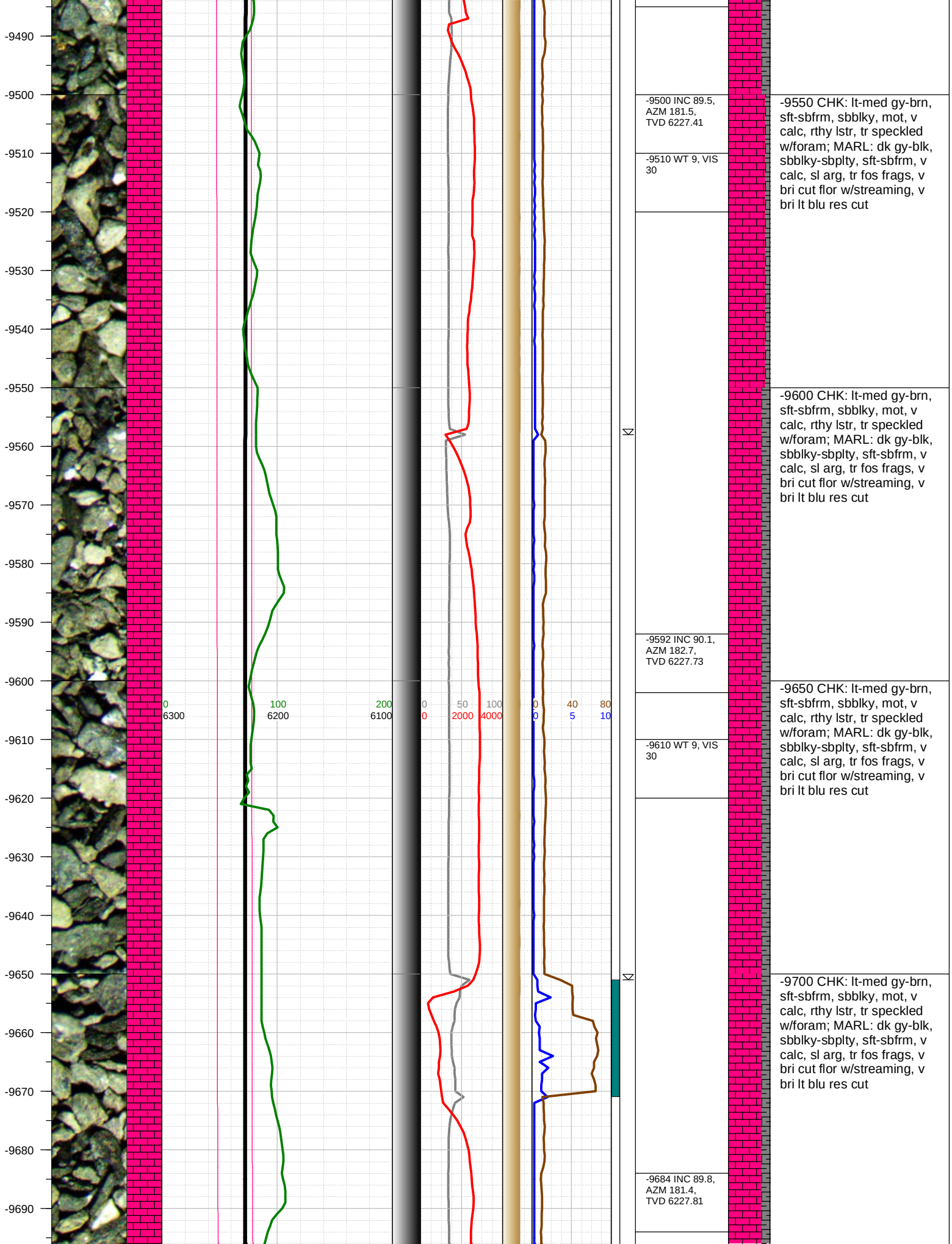
-9300 WT 8.9, VIS 28
-9315 INC 88, AZM 181.2, TVD 6224.42
-9408 INC 89.4, AZM 181.2, TVD 6226.53
-9420 WT 8.9, VIS 28
-9471 TOOH for MWD tool
-9471 0000 hrs on 11/12/2014
-9350 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri med blu res cut
-9400 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri med blu res cut
-9450 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-9500 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags, v bri cut flor w/streaming, v bri lt blu res cut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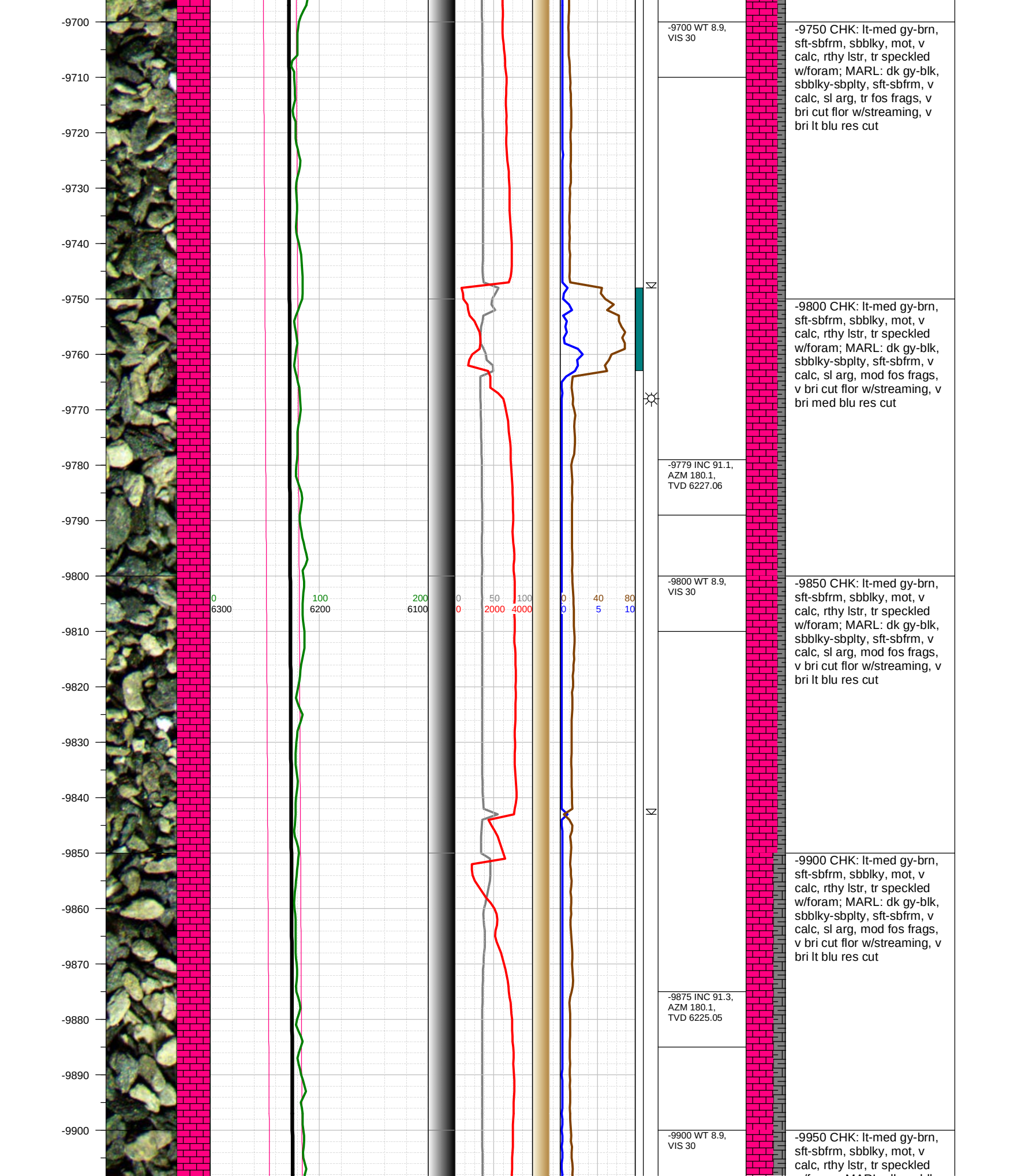
-9500 INC 89.5, AZM 181.5, TVD 6227.41
-9510 WT 9, VIS 30
-9592 INC 90.1, AZM 182.7, TVD 6227.73
-9610 WT 9, VIS 30
-9684 INC 89.8, AZM 181.4, TVD 6227.81
-9550 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-9600 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-9650 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-9700 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri lt blu res cut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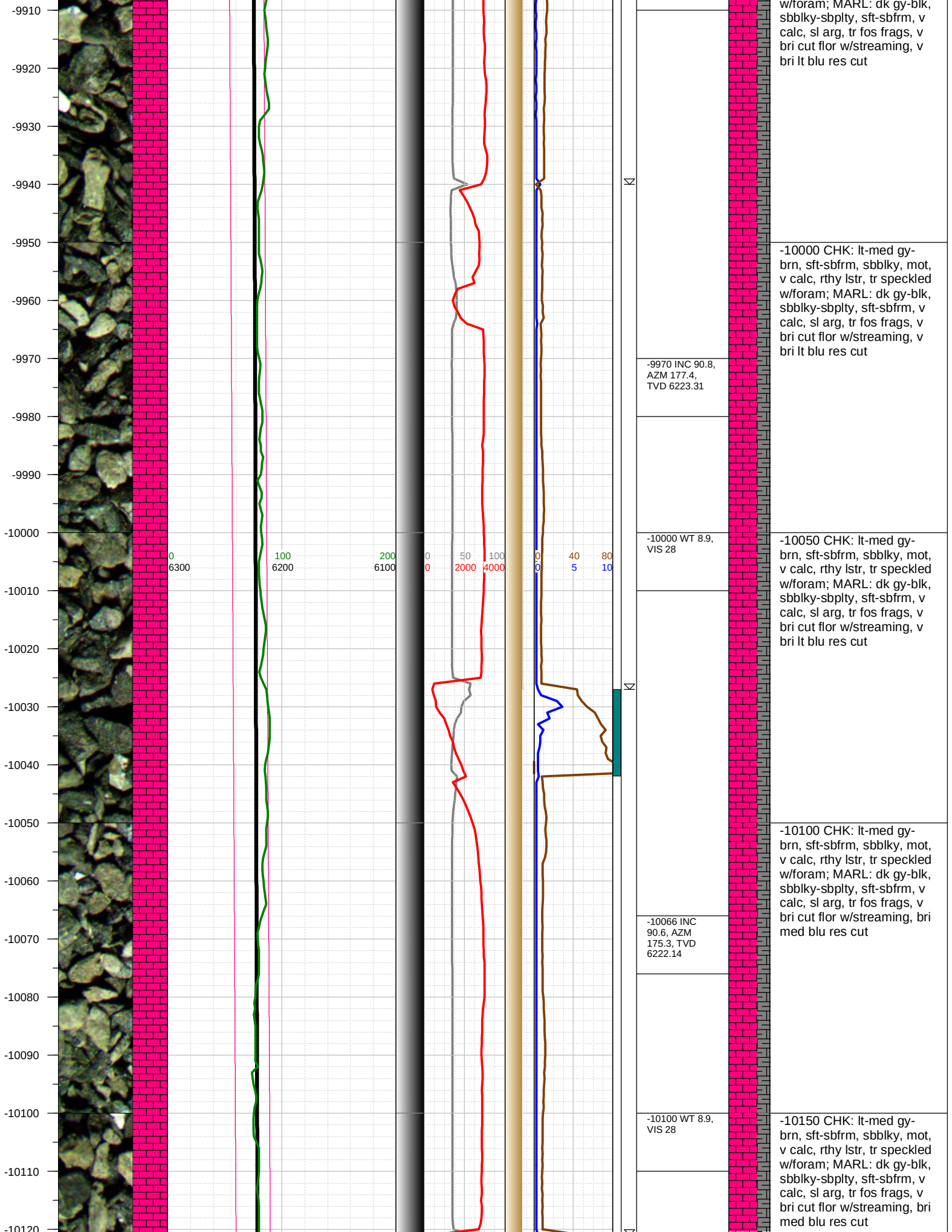
-9700 WT 8.9, VIS 30
-9750 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-9800 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags, v bri cut flor w/streaming, v bri med blu res cut
-9779 INC 91.1, AZM 180.1, TVD 6227.06
-9800 WT 8.9, VIS 30
-9850 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-9900 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-9875 INC 91.3, AZM 180.1, TVD 6225.05
-9900 WT 8.9, VIS 30
-9950 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled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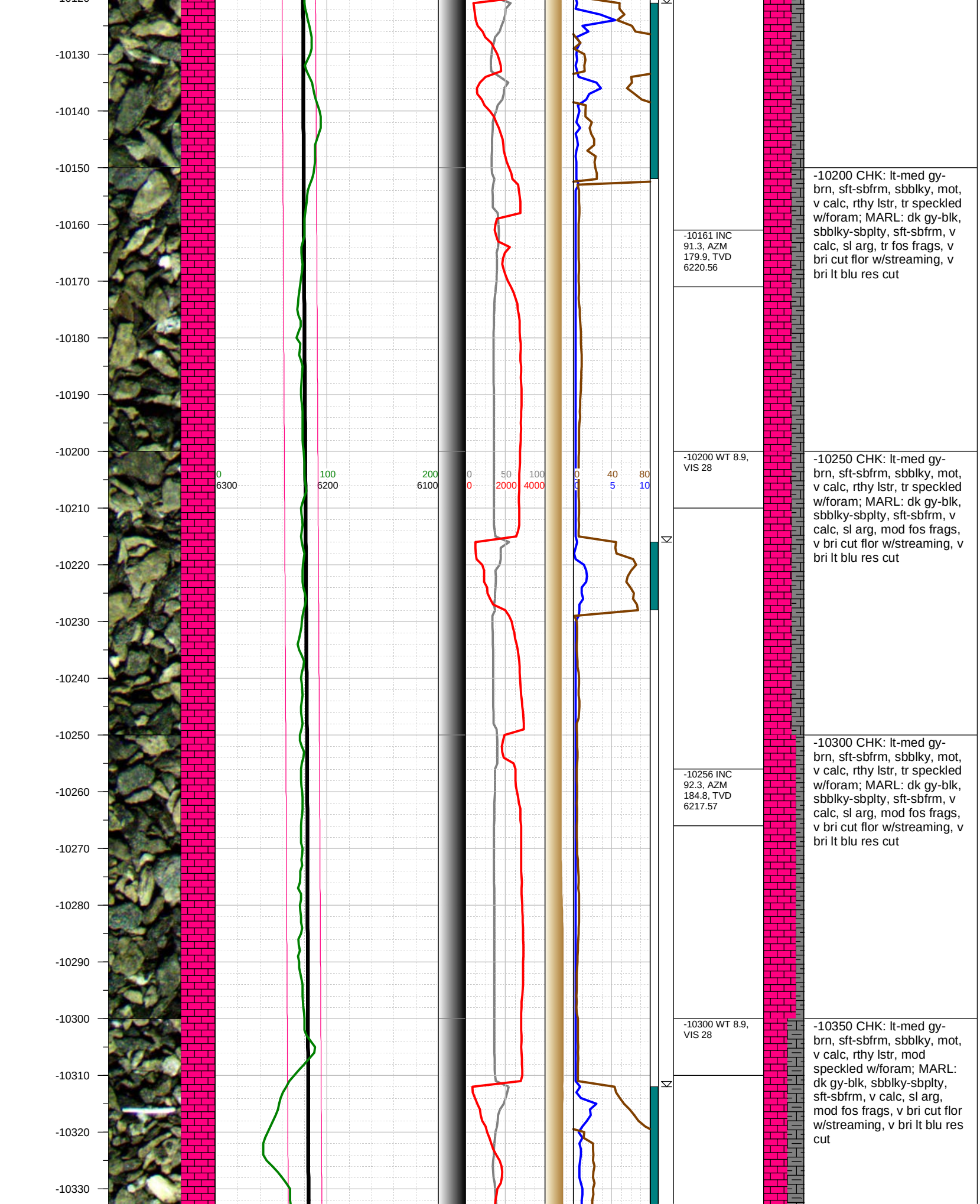
w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-10000 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-9970 INC 90.8, AZM 177.4, TVD 6223.31
-10000 WT 8.9, VIS 28
-10050 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-10100 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, bri med blu res cut
-10066 INC 90.6, AZM 175.3, TVD 6222.14
-10100 WT 8.9, VIS 28
-10150 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, bri med blu res cut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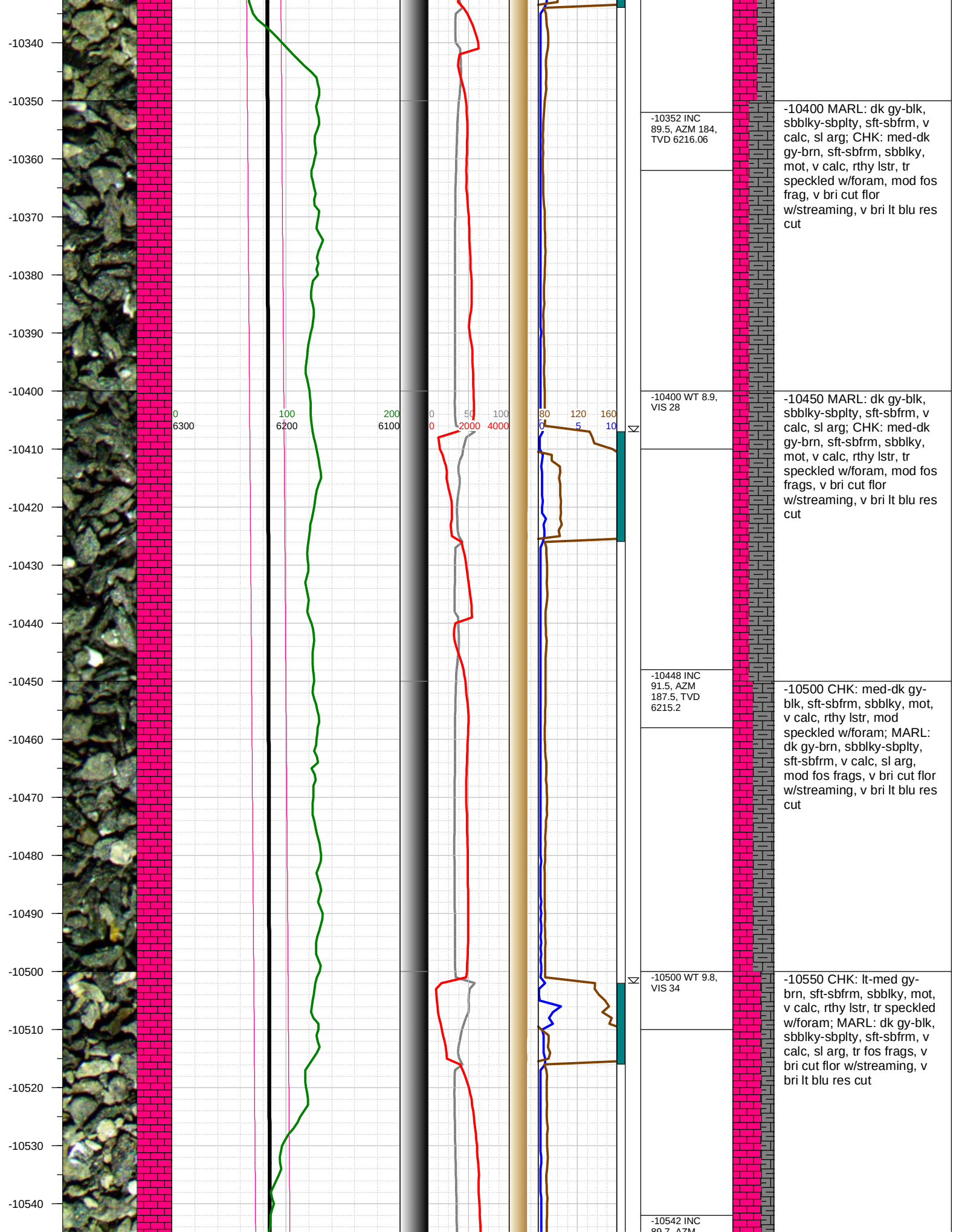
-10161 INC 91.3, AZM 179.9, TVD 6220.56
-10200 WT 8.9, VIS 28
-10256 INC 92.3, AZM 184.8, TVD 6217.57
-10300 WT 8.9, VIS 28
-10200 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-10250 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-10300 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-10350 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, mod speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags, v bri cut flor w/streaming, v bri lt blu res cut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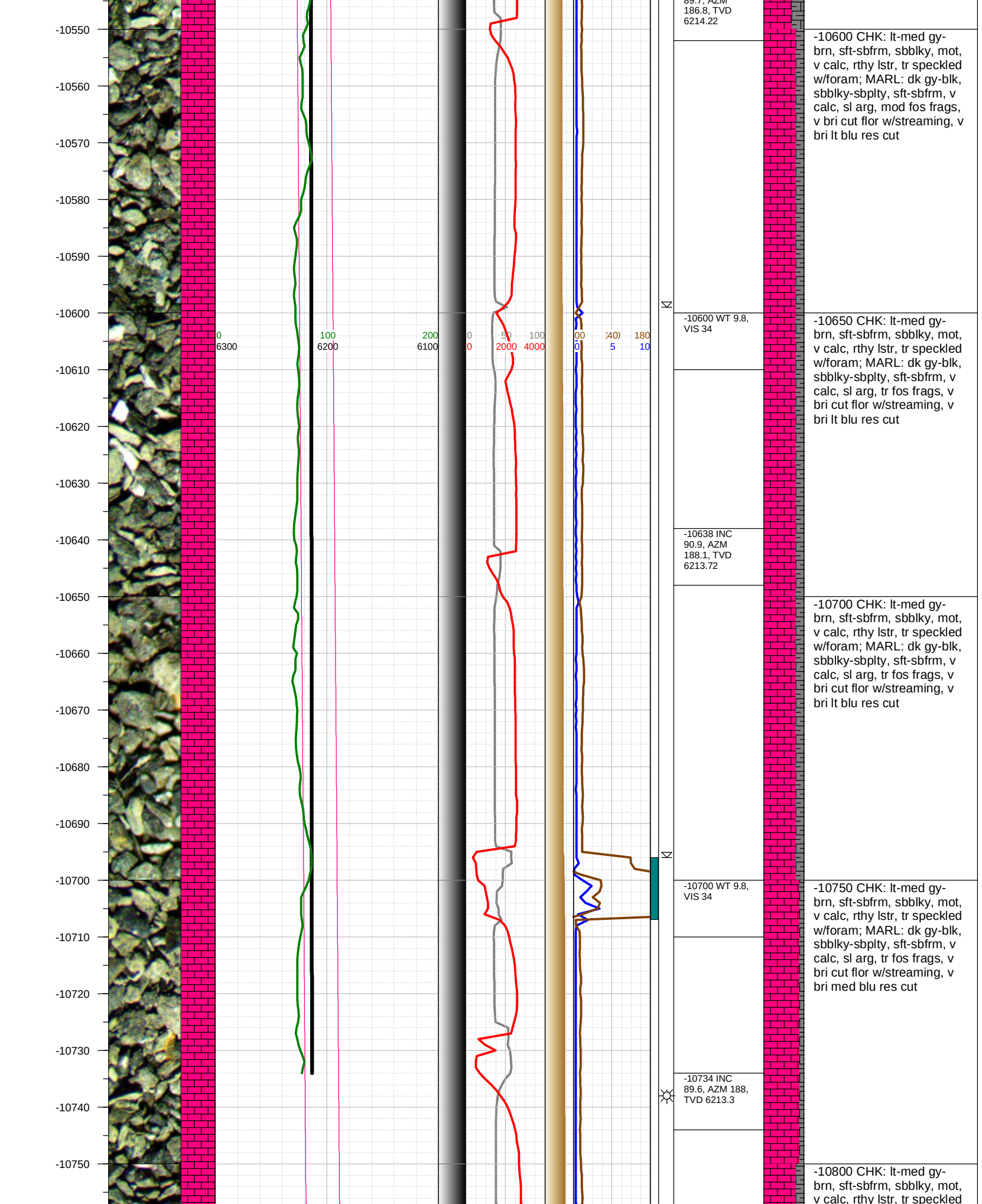
-10352 INC 89.5, AZM 184, TVD 6216.06
-10400 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg; CHK: med-dk gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram, mod fos frag, v bri cut flor w/streaming, v bri lt blu res cut
-10400 WT 8.9, VIS 28
-10450 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg; CHK: med-dk gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram, mod fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-10448 INC 91.5, AZM 187.5, TVD 6215.2
-10500 CHK: med-dk gy-blk, sft-sbfrm, sbblky, mot, v calc, rthy lstr, mod speckled w/foram; MARL: dk gy-brn, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-10500 WT 9.8, VIS 34
-10550 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-10542 INC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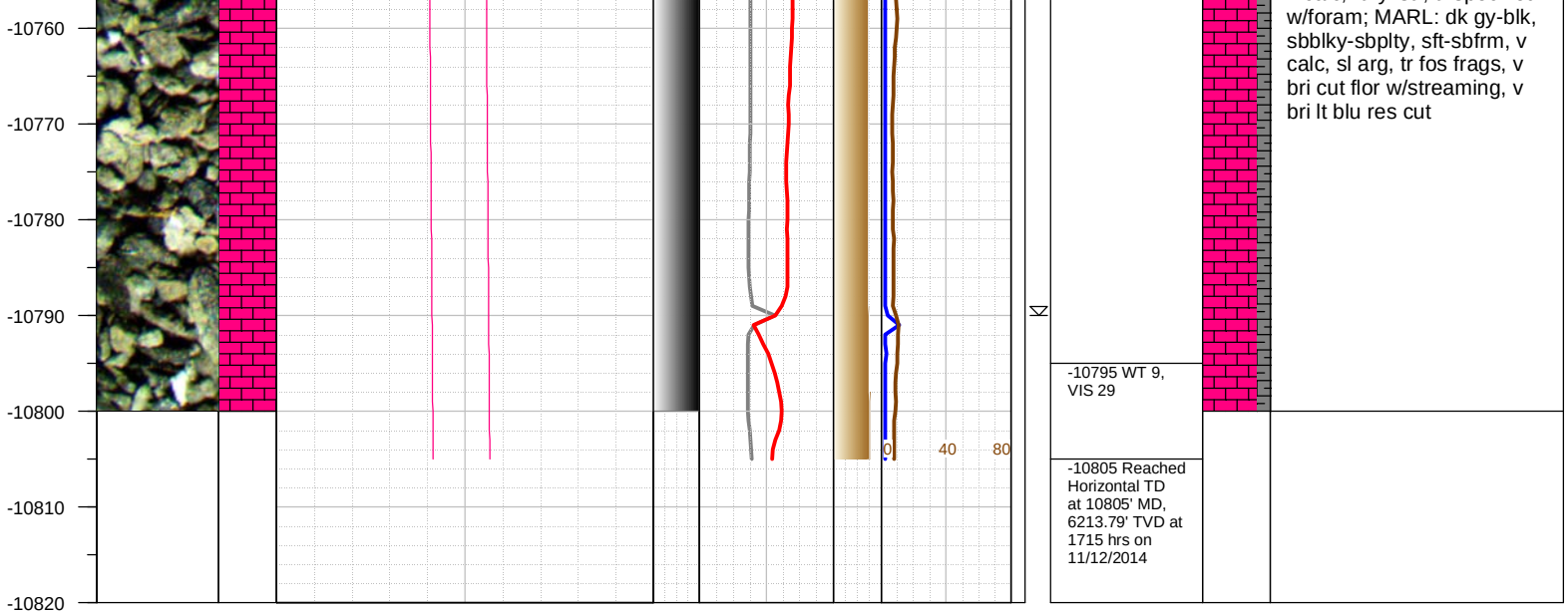
-10600 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, mod fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-10600 WT 9.8, VIS 34
-10650 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-10638 INC 90.9, AZM 188.1, TVD 6213.72
-10700 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri lt blu res cut
-10700 WT 9.8, VIS 34
-10750 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled w/foram; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, sl arg, tr fos frags, v bri cut flor w/streaming, v bri med blu res cut
-10734 INC 89.6, AZM 188, TVD 6213.3
-10800 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr, tr speckled



TOTAL DEPTH = 10805'

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